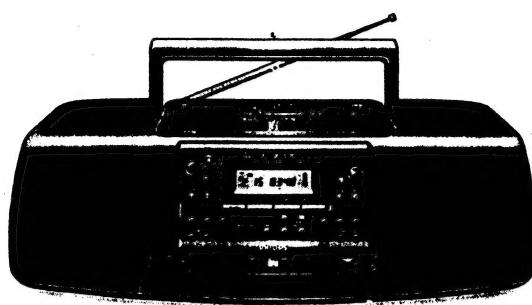


Service

Service

Service



Service Manual



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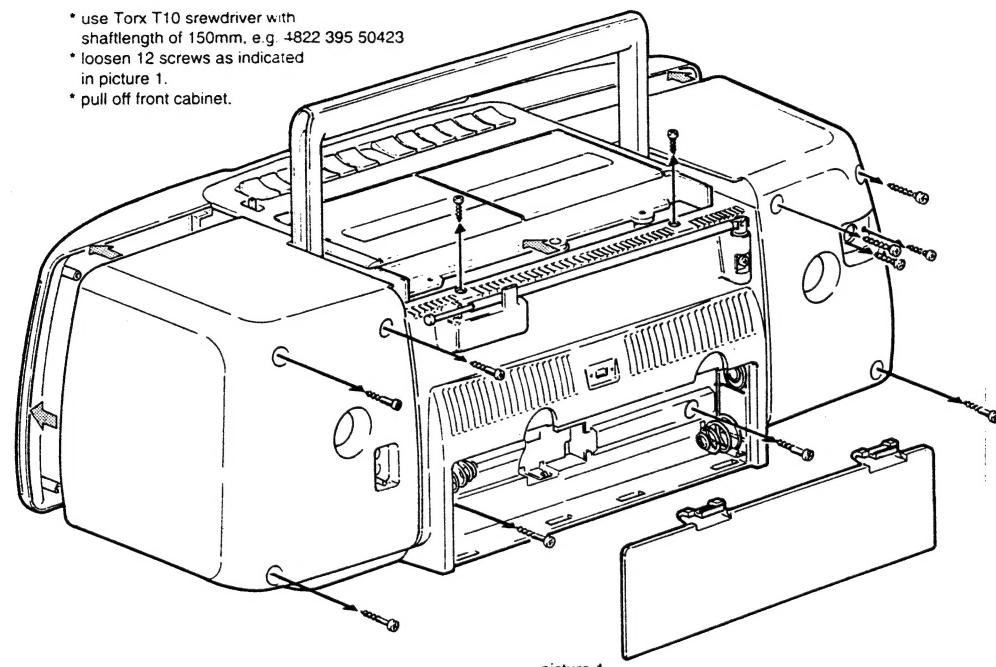
**CLASS 1
LASER PRODUCT**



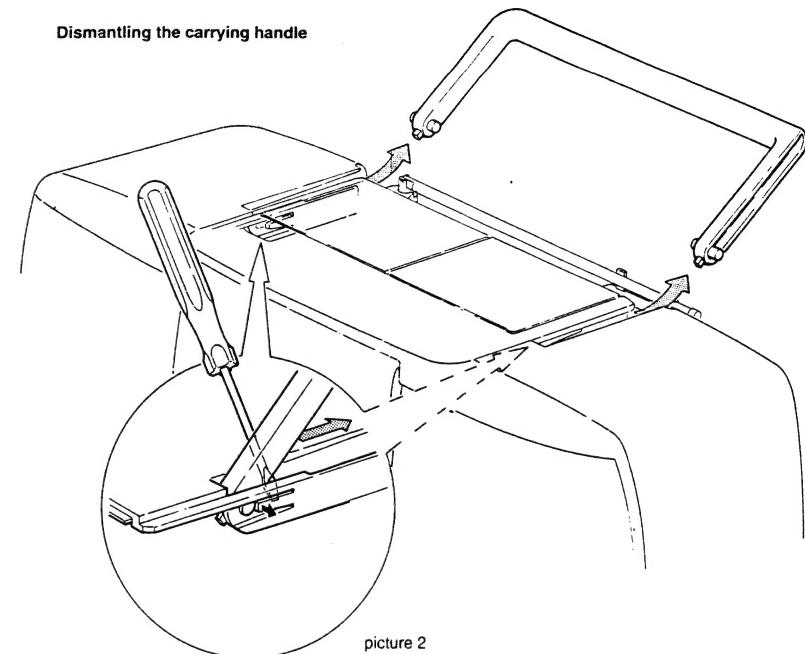
DISMANTLING INSTRUCTIONS

Removing the rear cabinet

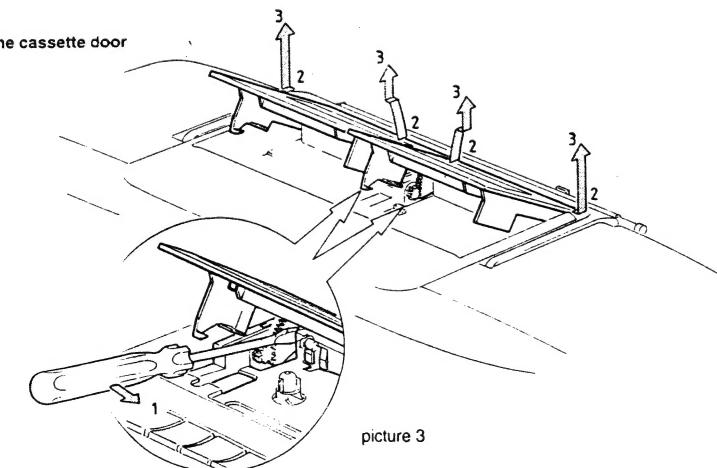
- use Torx T10 screwdriver with shaftlength of 150mm, e.g. 4822 395 50423
- loosen 12 screws as indicated in picture 1.
- pull off front cabinet.



Dismantling the carrying handle

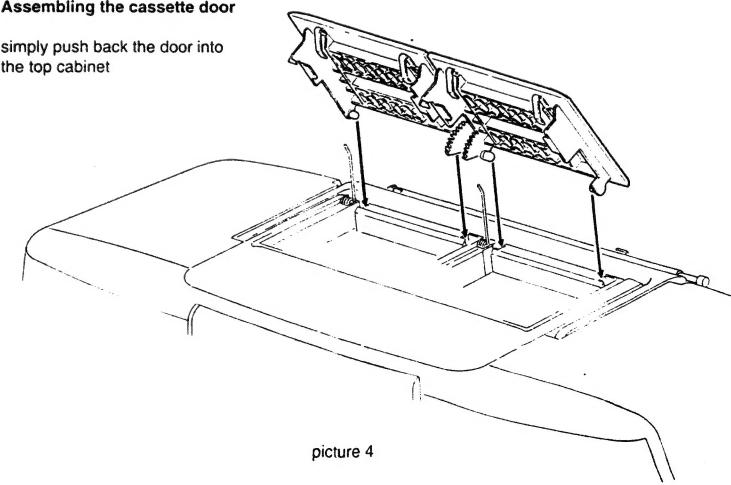


Dismantling the cassette door



Assembling the cassette door

simply push back the door into the top cabinet



Dismantling hints CD Short Loader

Dismantling the tray

- Press open/close button to open the tray. If the tray doesn't work, use a small screwdriver as shown in Fig.1 point 1 to move the tray outside. After the first centimetre it is possible to pull the tray out by hand.
- Release two snaps and remove tray.

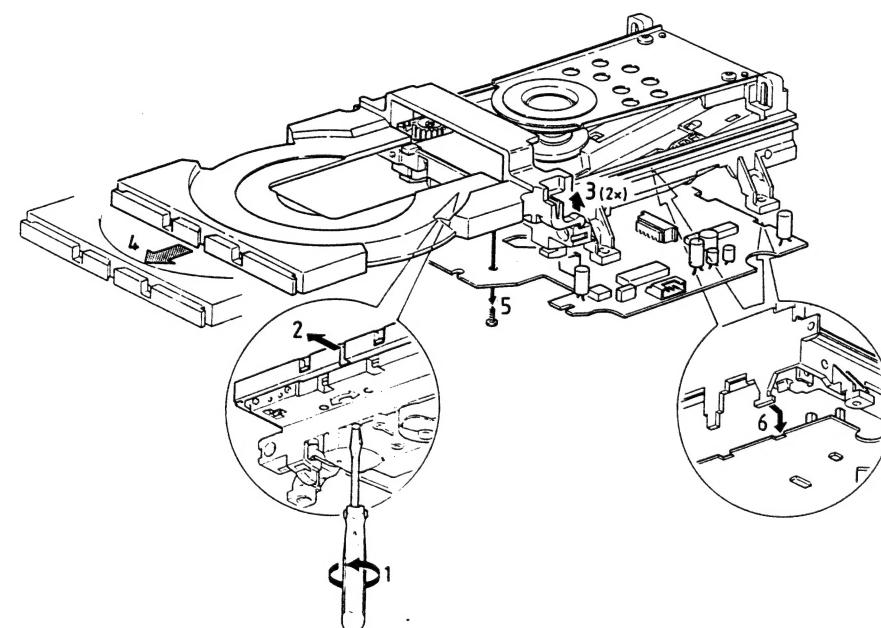


Fig. 1

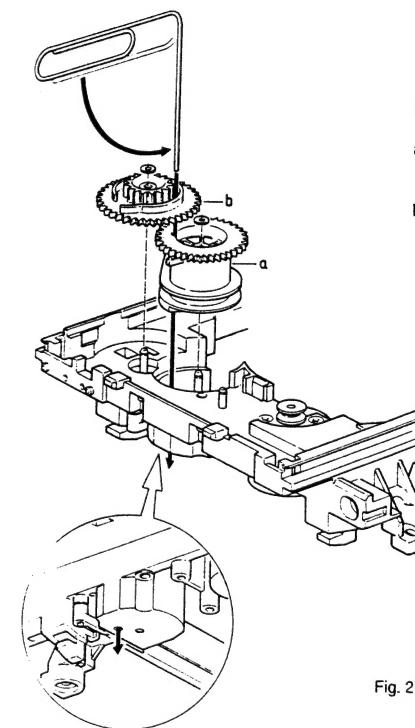


Fig. 2

Assembly of gear

- Use a pin (e.g. a paperclip) to align the cam wheel (a) with the gear wheel (b). See Fig. 2.
- Fix the wheels with the small plastic washers.

- c) Mount idle wheel 2 (c) and idle wheel 1 (d) in any position. See Fig. 3.
- d) Fix the idle wheel 1 (d) with the small plastic whasher.
- e) Mount the driving belt.

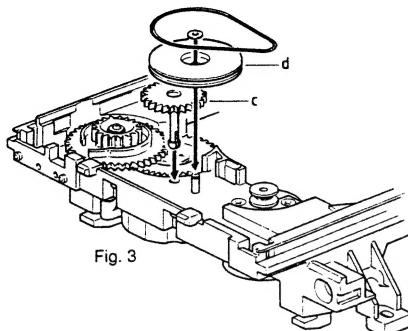


Fig. 3

- f) Mount the pinion guiding assy and the cover as shown in Fig. 4.
- g) Turn the gear wheel (b) counter clockwise to endposition.

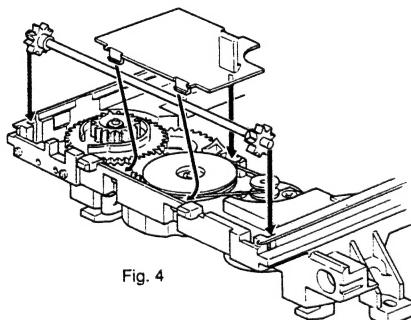


Fig. 4

- h) Mount the CD Mechanism as shown in Fig. 5.
- i) Mount the tray (Align the tray to the chassis and push it inside).

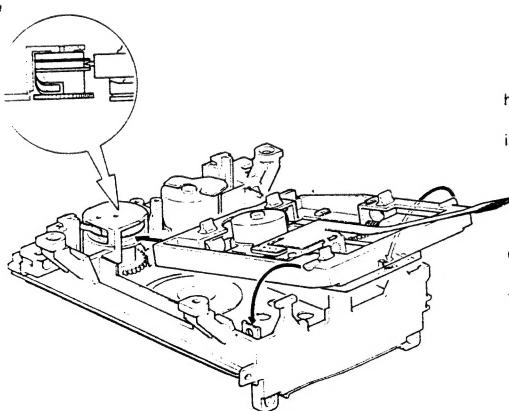


Fig. 5

Check if tray mechanism works correctly!

- 1) Turn the gear wheel (b) clockwise to its endposition (Use a small screwdriver as shown in Fig. 1 point 1).

The tray has to move to inner position first and then the CD mechanism has to move to its upper position.

- 2) Turn the gear wheel (b) counter clockwise to its endposition.

The CD Mechanism has to move to its lower position first and then the tray has to move outside.

- c) Mount idle wheel 2 (c) and idle wheel 1 (d) in any position. See Fig. 3.
- d) Fix the idle wheel 1 (d) with the small plastic washer.
- e) Mount the driving belt.

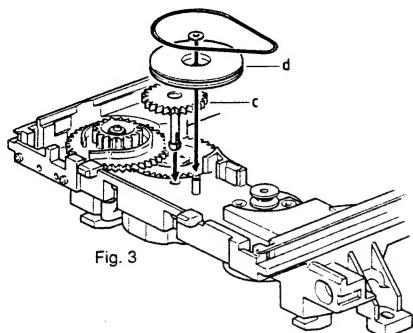


Fig. 3

- f) Mount the pinion guiding assy and the cover as shown in Fig. 4.
- g) Turn the gear wheel (b) counter clockwise to endposition.

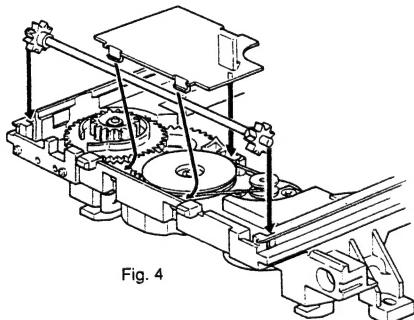


Fig. 4

- h) Mount the CD Mechanism as shown in Fig. 5.
- i) Mount the tray (Align the tray to the chassis and push it inside).

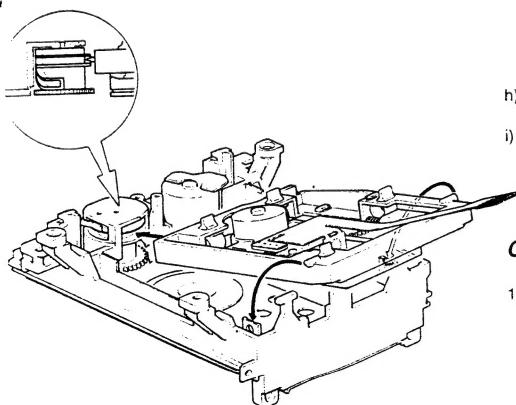


Fig. 5

Check if tray mechanism works correctly!

- 1) Turn the gear wheel (b) clockwise to its endposition (Use a small screwdriver as shown in Fig. 1 point 1).

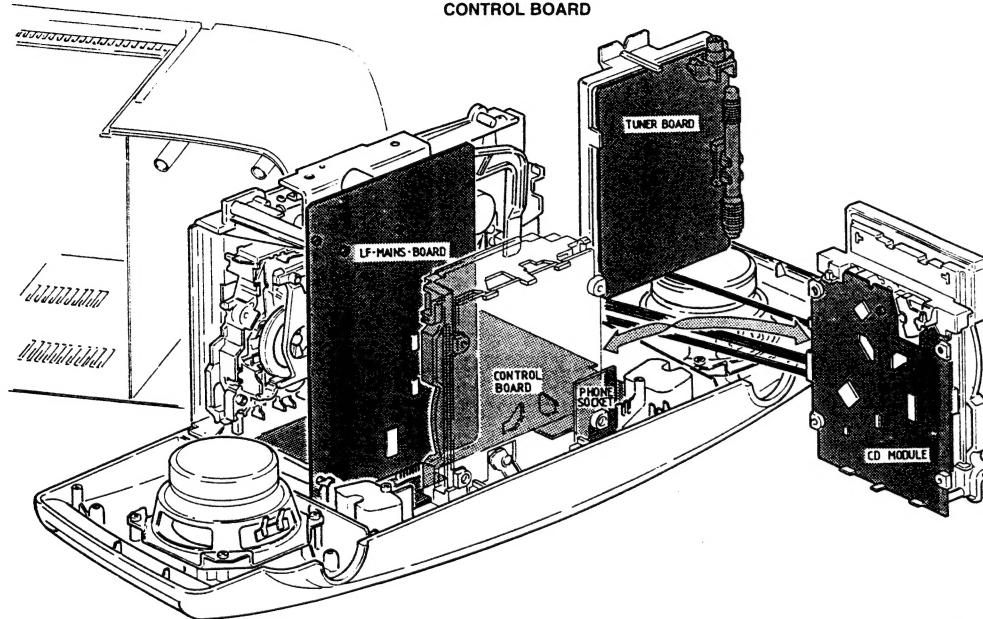
The tray has to move to inner position first and then the CD mechanism has to move to its upper position.

- 2) Turn the gear wheel (b) counter clockwise to its endposition.

The CD Mechanism has to move to its lower position first and then the tray has to move outside.

REPAIR POSITIONS

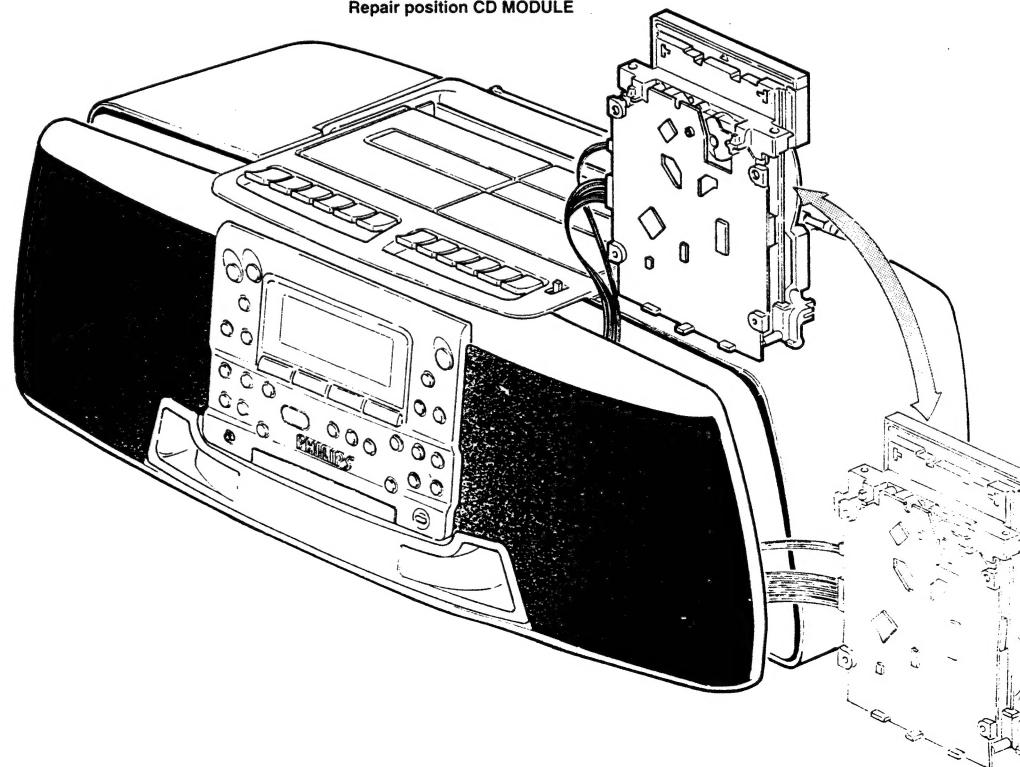
GENERAL repair position for: TUNER BOARD
LF-MAINS BOARD
CONTROL BOARD



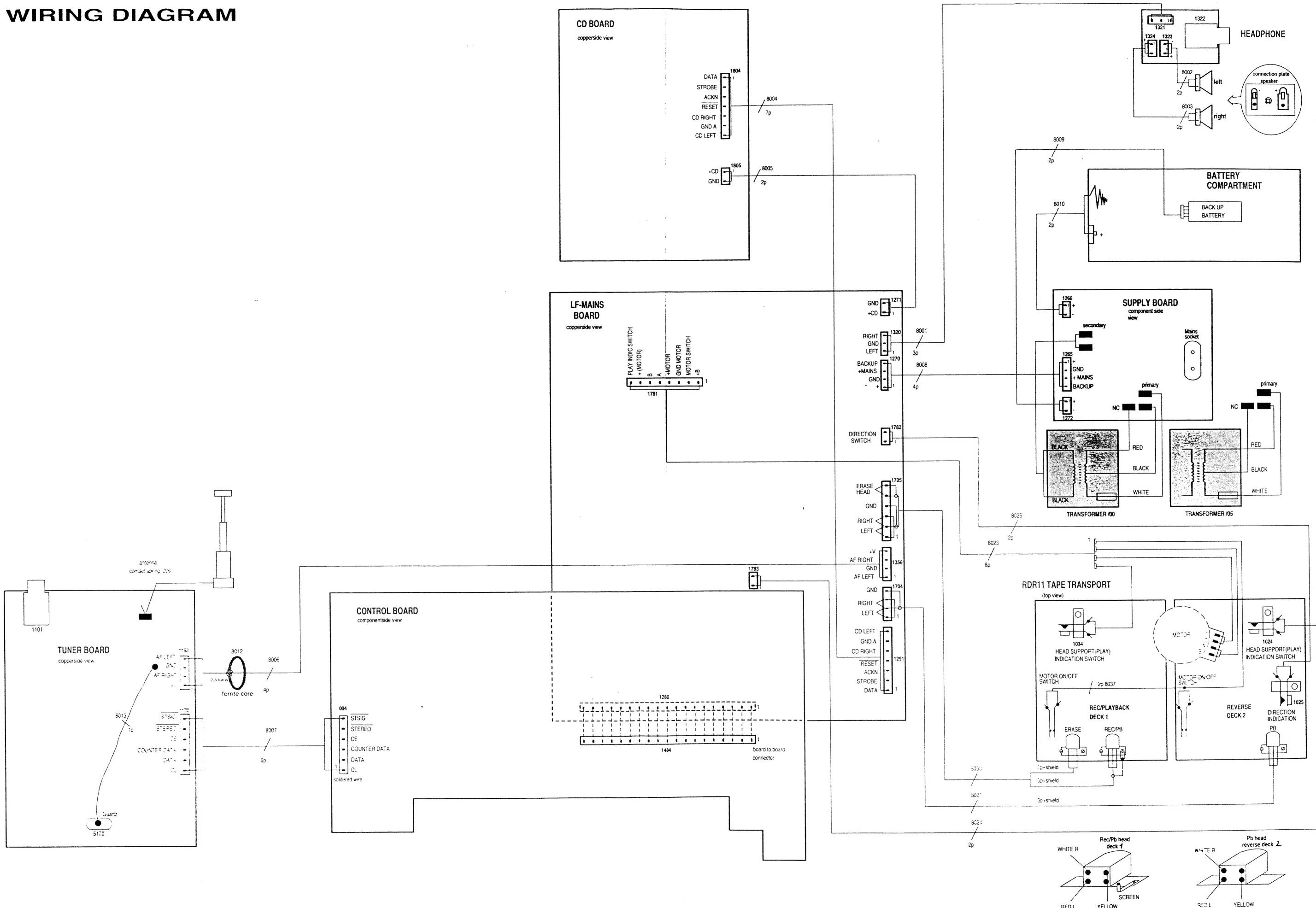
Repair position CD MODULE

Put CD module aside if necessary.

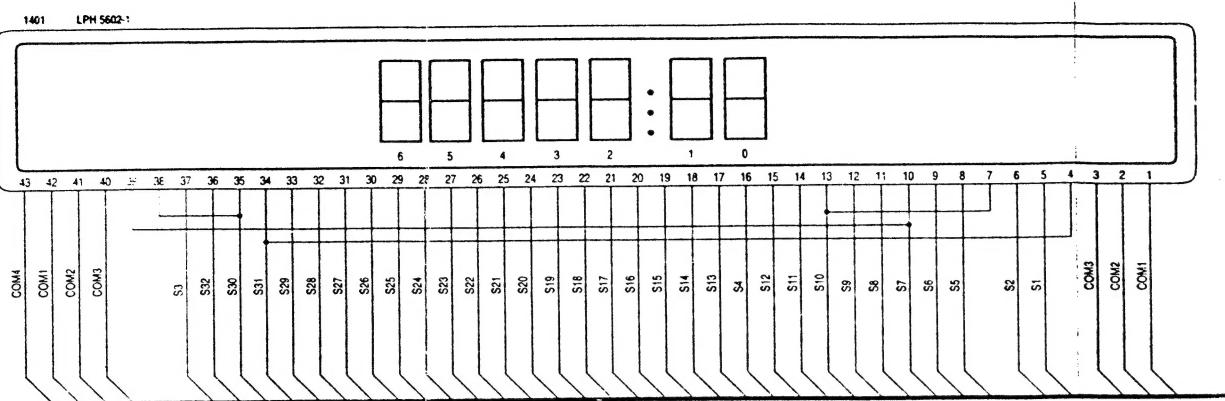
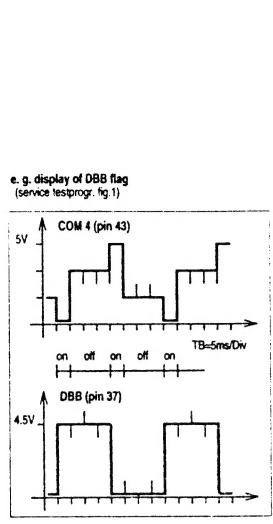
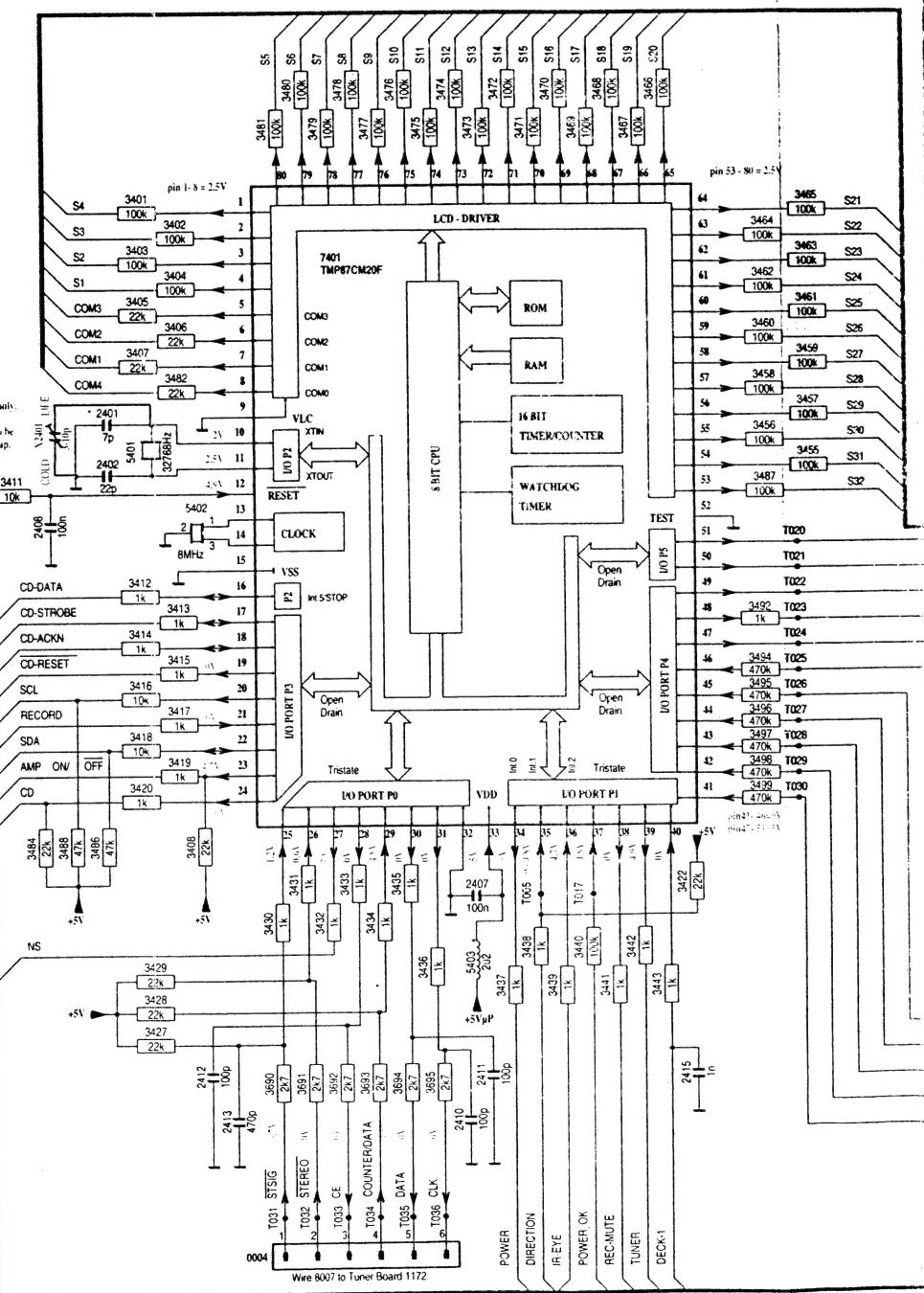
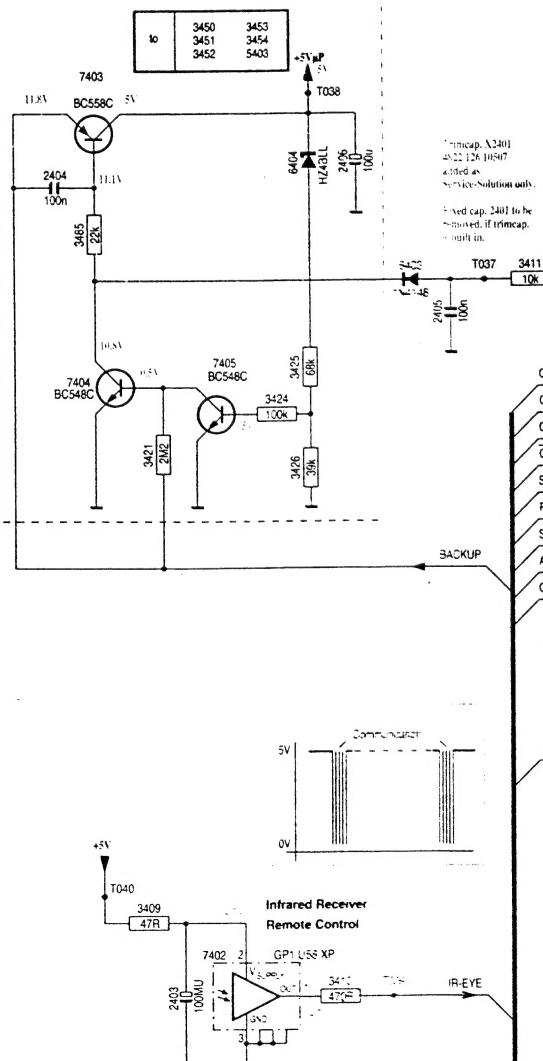
To get full access to Control Board respectively to the component side of LF-Mains Board, remove top cabinet with tape transports → loosen 3 screws of LF-Mains Board and 2 screws top cabinet-front cabinet first. Then pull off top part while bending LF-Mains Board backwards (cool -& fin!)



WIRING DIAGRAM



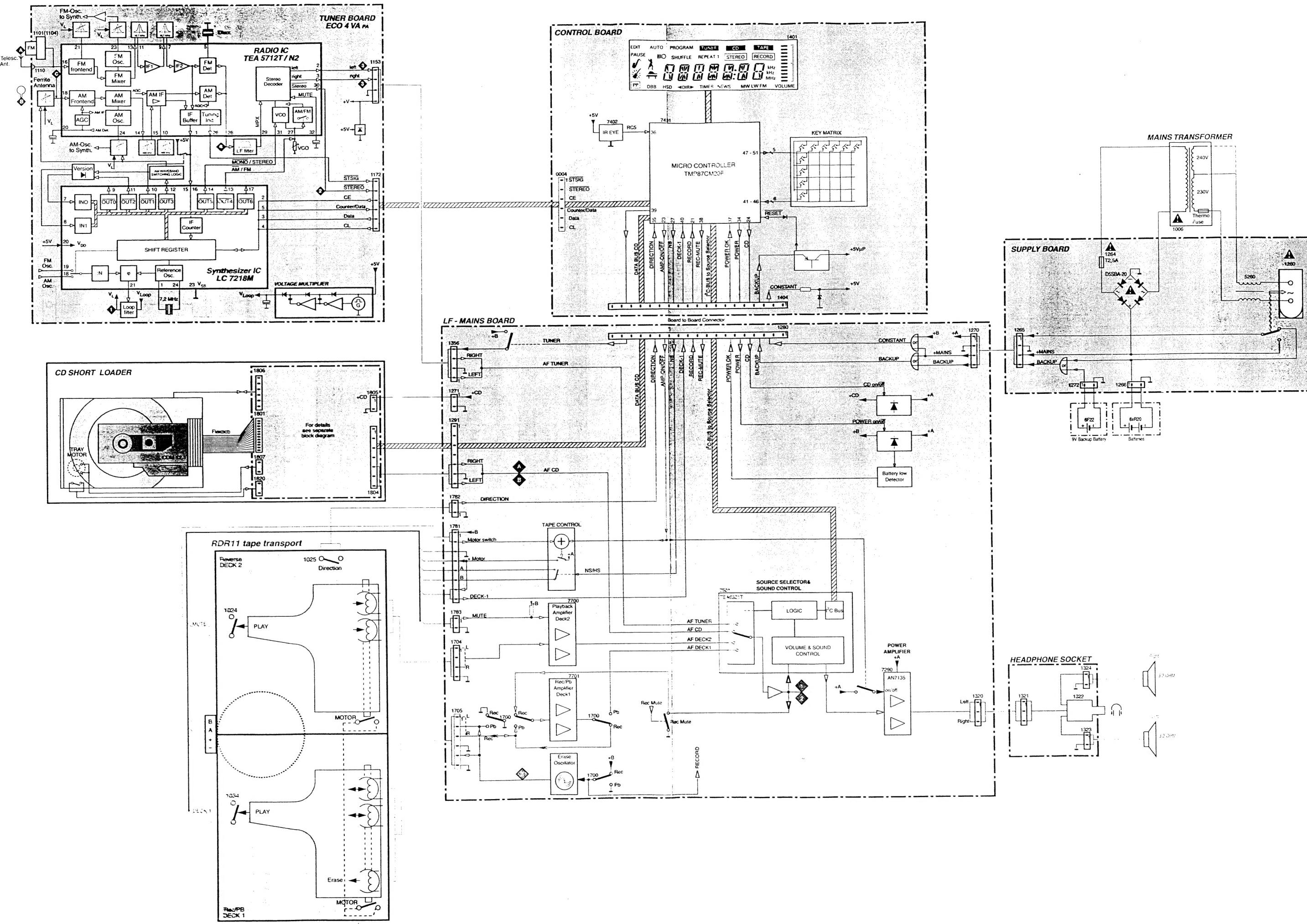
CONTROL BOARD

STABILIZING CIRCUIT μ P SUPPLY

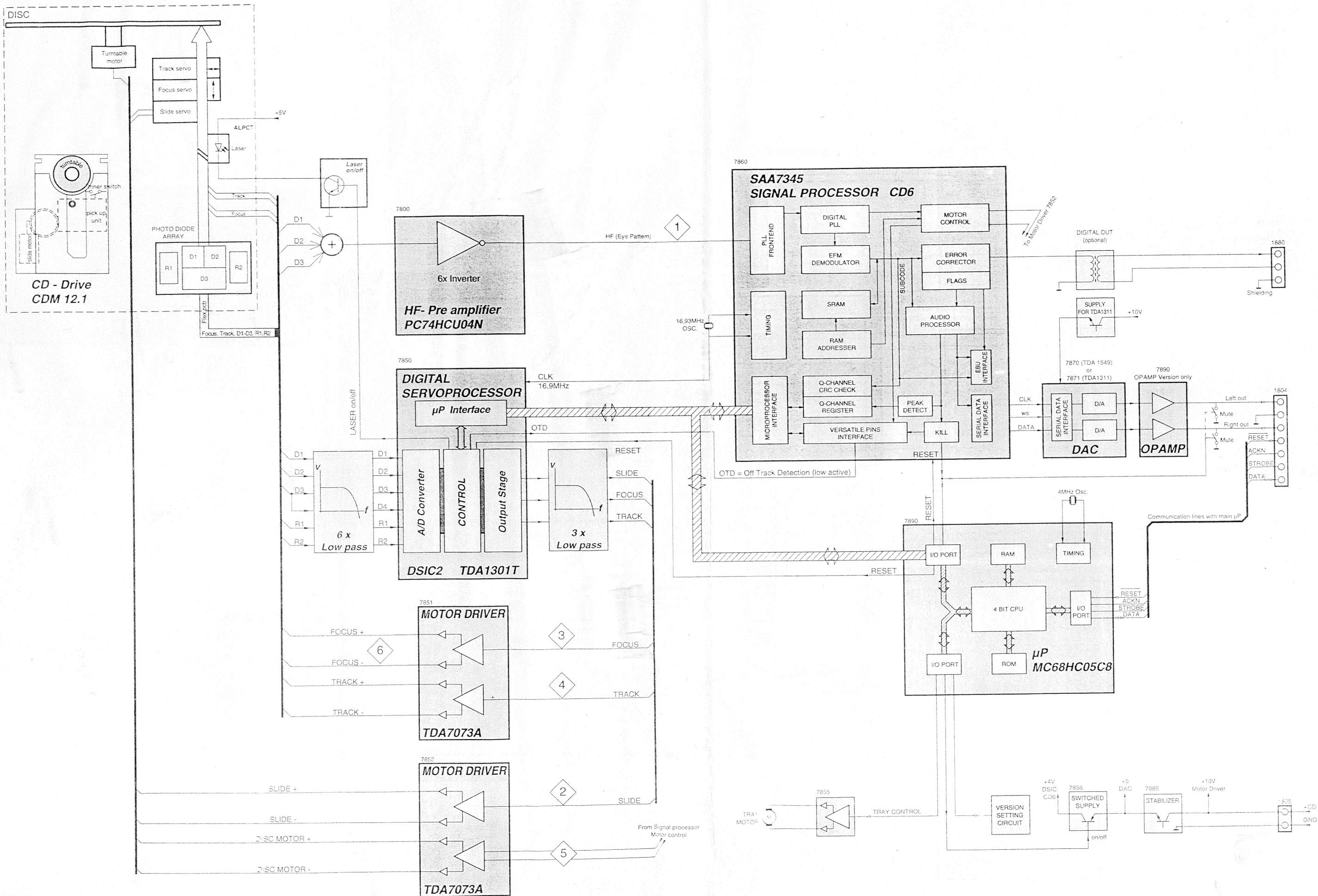
DISPLAY CONNECTION TABLE

PIN	COM 1	COM 2	COM 3	COM 4
1	COM1	-	-	-
2	-	COM2	-	-
3	-	-	COM3	-
4	VOLUME	-	-	-
5	X10	-	X9	X1
6	X7	-	X5	X8
7	-	X3	-	-
8	0c	0b	X2	0d
9	0m	0a	0b	0n
10	-	0g	-	-
11	0e	0f	0g	MW kHz
12	1c	1b	1d	HSD
13	1m	-	1a	DIR
14	X4	1g	1j	TIMER
15	1e	1h	1i	NEWS
16	*	*	1	MW
17	2c	2b	2d	LW kHz
18	2m	2k	2p	FM kHz
19	2e	2a	2i	CD
20	-	-	-	NEWS
21	3c	3k	3d	3d
22	3m	-	3k	3p
23	3e	3g	3i	TIMER
24	3k	-	3l	REPEAT
25	4c	4b	4d	4d
26	4m	4k	4p	4p
27	4e	4g	4i	PROGRAM
28	5c	5b	5d	SHUFFLE
29	5m	5g	5i	5i
30	5e	5h	5j	5j
31	5k	5i	5l	5l
32	5e	5i	5h	5h
33	5k	5j	5o	5o
34	-	-	6a	PAUSE
35	-	-	6b	EDIT
36	-	-	6c	COM3
37	-	-	-	-
38	-	-	-	-
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211				

APPARATUS BLOCKDIAGRAM



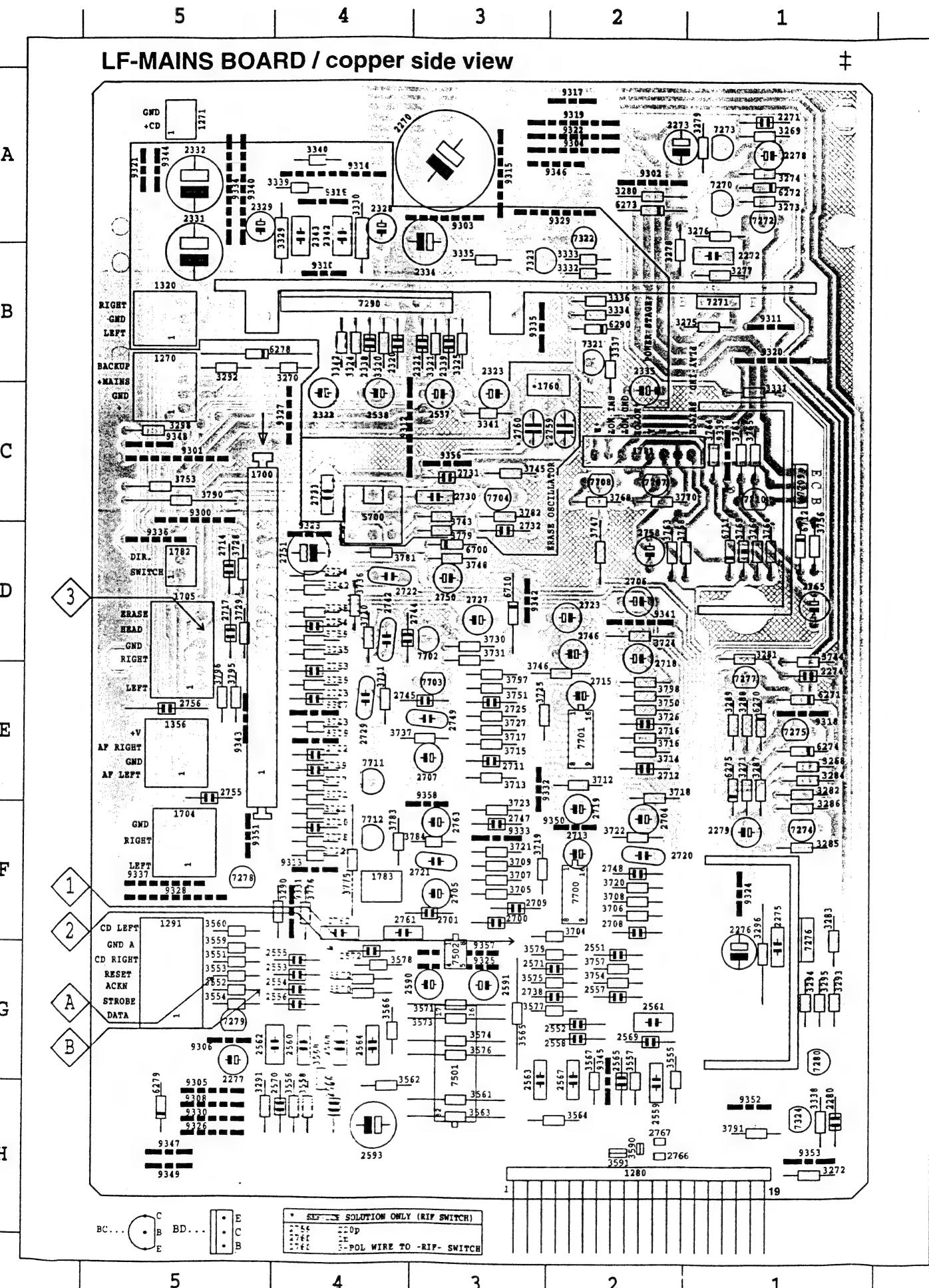
BLOCKDIAGRAM CD Module



DESCRIPTION OF CONTROL- AND DATA LINES

to/from LF/Mains-board			
	SIGNAL NAME	SIGNAL FLOW	EXPLANATION
0004 N 6	7402 M 2		
1401 A 3	7403 F 1		
1404 G 2	7404 I 1		
1405 H 1	7405 I 2		
1406 I 3	7406 G 2		
1407 J 1	7002 G 21		
1408 J 6	7003 H 21		
1409 J 7	T005 K 8		
1410 J 5	T006 H 21		
1411 J 1	T007 I 21		
1412 J 3	T008 I 21		
1413 J 9	T009 I 21		
1414 J 8	T010 I 21		
1415 J 1	T011 J 21		
1416 J 5	T012 J 21		
1417 J 1	T013 J 21		
1418 J 1	T014 J 21		
1419 J 8	T015 K 21		
1420 J 5	T016 K 21		
1421 J 7	T017 K 9		
1422 J 5	T018 K 21		
1423 K 4	T019 L 21		
1424 K 3	T020 H 10		
1425 K 9	T021 H 10		
1426 K 6	T022 I 10		
1427 K 7	T023 I 10		
1428 K 5	T024 I 10		
1429 K 4	T025 I 10		
1430 K 3	T026 I 10		
1431 K 9	T027 J 10		
132 K 6	T028 J 10		
1433 K 7	T029 J 10		
2401 G 5	T030 J 10		
X2401 G 5	T031 M 6		
2402 G 5	T032 M 7		
2403 M 2	T033 M 7		
2404 G 1	T034 M 7		
2405 H 4	T035 M 7		
2406 G 3	T036 M 8		
2407 K 8	T037 H 4		
2408 H 5	T038 F 3		
2410 M 8	T039 M 3		
2411 L 8	T040 L 1		
2412 L 8			
2413 M 6			
2415 L 0			
2416 I 20			
2417 L 20			
3401 F 5			
3402 F 6			
3403 F 5			
3405 F 5			
3406 G 6			
3407 G 5			
3408 K 6			
3409 M 2			
3410 M 3			
3411 M 4			
3412 I 5			
3413 I 6			
3414 I 5			
3415 I 6			
3416 I 5			
3417 J 6			
3418 I 5			
3419 I 6			
3420 I 5			
3421 I 2			
3422 K 10			
3424 I 2			
3425 H 3			
3426 I 3			
3427 I 5			
3428 L 5			
3429 L 5			
3430 K 6			
3431 K 7			
3432 K 7			
3433 K 7			
3434 K 7			
3435 K 7			
3436 K 8			
3437 L 8			
3438 K 8			
3439 L 9			
3440 K 9			
3441 K 9			
3442 K 9			
3443 L 9			
3444 M 13			
3445 M 14			
3446 M 15			
3447 M 16			
3448 M 17			
3449 M 18			
3450 H 2			
3451 G 12			
3452 H 12			
3453 G 12			
3454 H 12			
3455 H 11			
3456 G 10			
3457 G 11			
3458 G 10			
3459 G 10			
3460 G 10			
3461 F 11			
3462 F 10			
3463 F 11			
3464 F 10			
3465 F 11			
3466 E 9			
3467 E 9			
3468 E 9			
3469 E 9			
3470 E 9			
3471 E 8			
3472 E 8			
3473 E 8			
3474 E 8			
3475 E 8			
3476 E 7			
3477 E 7			
3478 E 7			
3479 E 7			
3480 E 7			
3481 E 6			
3482 G 6			
3483 H 18			
3484 K 5			
3485 G 1			
3486 G 1			
3487 H 10			
3488 K 5			
3489 H 12			
3490 J 12			
3491 J 12			
3492 I 10			
3493 K 12			
3494 I 10			
3495 H 10			
3496 J 10			
3497 J 10			
3498 J 10			
3499 J 10			
3500 L 6			
3691 L 7			
3692 L 7			
3693 L 7			
3694 L 7			
3695 L 8			
5401 G 5			
5402 H 6			
5403 K 6			
6403 H 3			
6404 G 3			
6405 H 3			
7401 F 1			
to/from Tuner board			
	CE	$\mu P \rightarrow$ synthesizer IC	Chip enable for dataline
	CLK	$\mu P \rightarrow$ synthesizer IC	Clock-frequency for data transfer.
	COUNTER/DATA	synthesizer IC $\rightarrow \mu P$	Data line synthesizer IC to μP .
	DATA	$\mu P \rightarrow$ synthesizer IC	Data line μP to synthesizer IC.
	STEREO	radio IC $\rightarrow \mu P$	Low level indicates a stereo transmitter.
	STSIG	radio IC $\rightarrow \mu P$	Low level indicates a strong transmitter found (STop SIGnal) during search mode.

LF - MAINS BOARD / layout stage .5

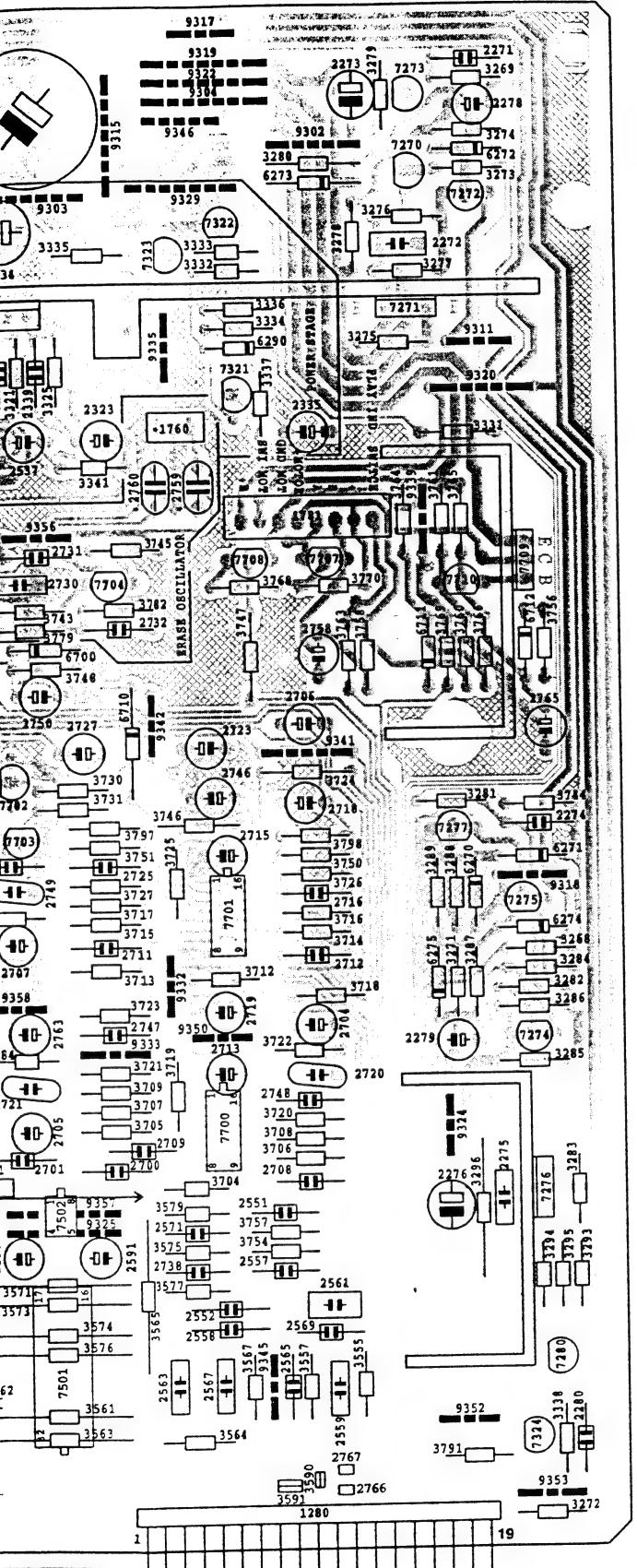


3

2

1

de view



2766 H 2
2767 H 2
3590 H 2
3591 H 2
7501 G 3
7502 G 3
7700 F 2
7701 F 2

A

8

6

D

E

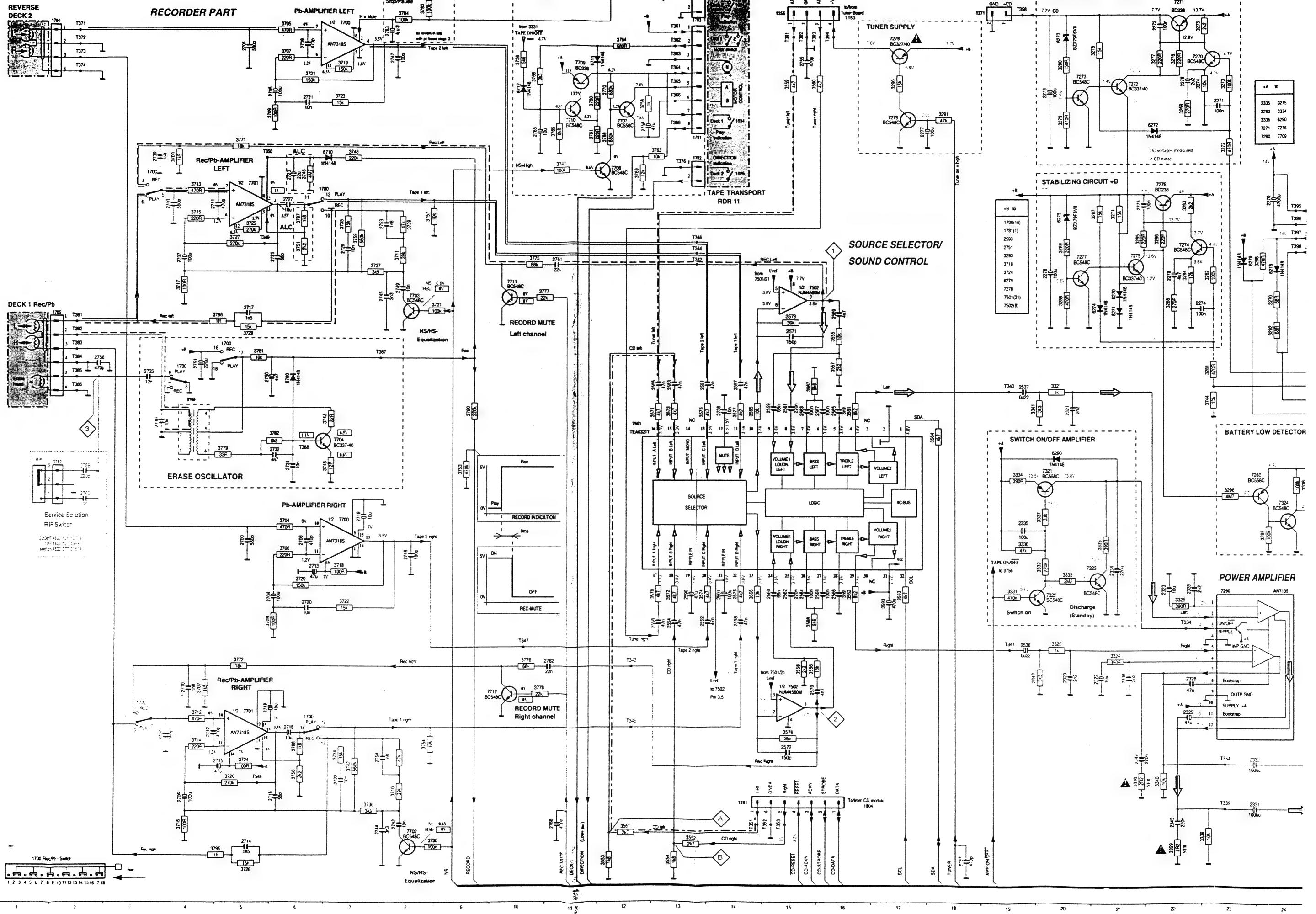
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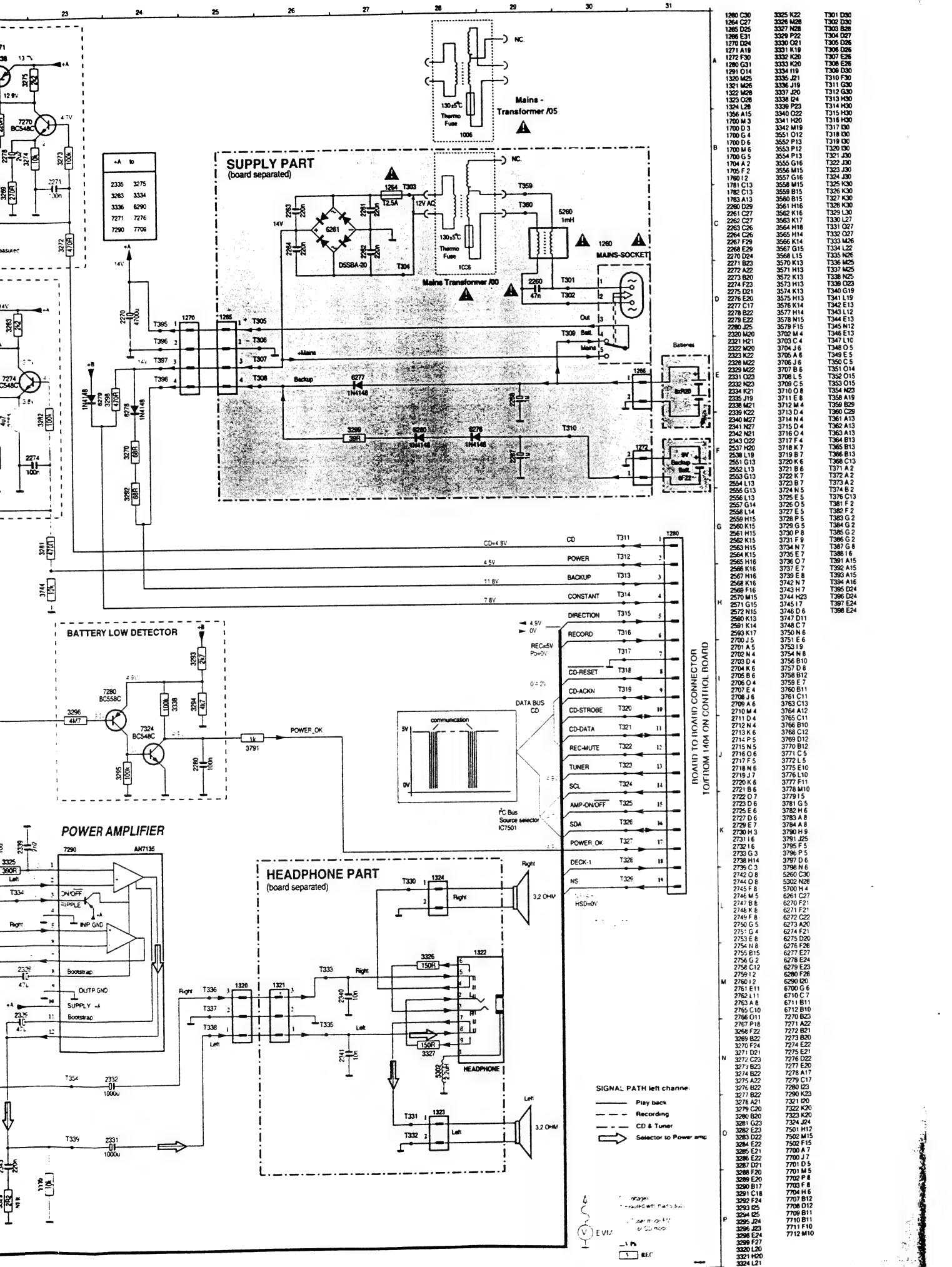
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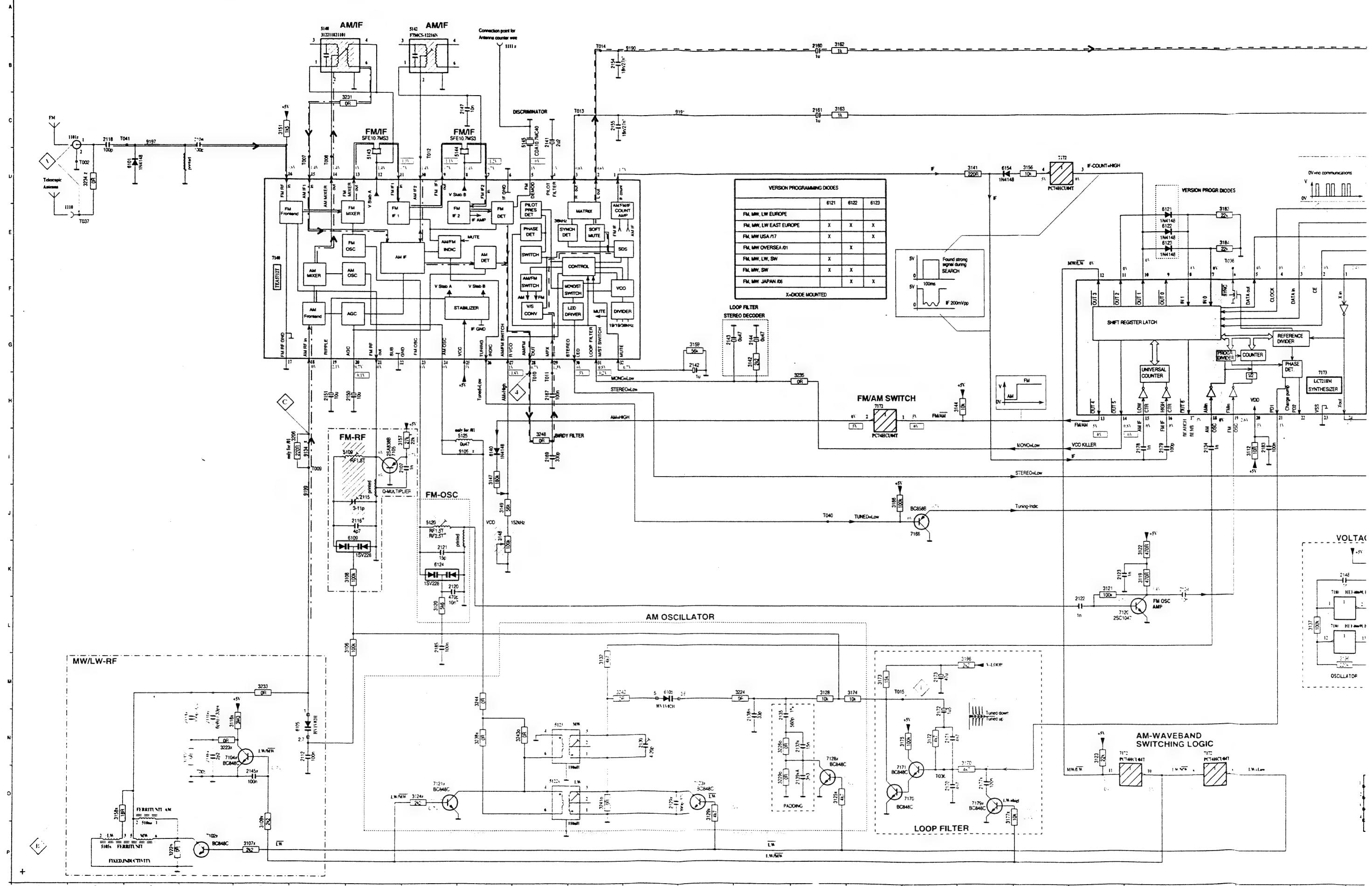
1270 C 5	2738 G 2	3578 G 4	7275 E 1
1271 A 5	2739 E 4	3579 G 2	7276 F 1
1280 B 2	2742 D 4	3702 F 4	7277 E 1
1291 G 5	2744 D 4	3703 E 4	7278 F 5
1320 B 5	2745 E 3	3704 F 2	7279 G 5
1356 E 5	2746 D 2	3705 F 3	7280 G 1
1700 C 5	2747 F 3	3706 F 2	7290 B 4
1704 F 5	2748 F 2	3707 F 3	7321 B 2
1705 D 5	2749 E 3	3708 F 2	7322 A 2
1760 C 3	2750 D 3	3709 F 3	7323 B 3
1781 C 2	2751 D 4	3710 D 4	7324 H 1
1782 D 5	2753 E 4	3711 E 4	7702 D 3
1783 F 4	2754 D 4	3712 E 2	7703 E 3
2270 A 3	2755 E 5	3713 E 3	7704 C 3
2271 A 1	2756 E 5	3714 E 2	7707 C 2
2272 B 1	2758 D 2	3715 E 3	7708 C 2
2273 A 2	2759 C 2	3716 E 2	7709 C 1
2274 E 1	2760 C 3	3717 E 3	7710 C 1
2275 G 1	2761 F 4	3718 E 2	7711 E 4
2276 G 1	2762 F 4	3719 F 3	7712 F 4
2277 G 5	2763 F 3	3720 F 2	9300 C 5
2278 A 1	2765 D 1	3721 F 3	9301 C 5
2279 F 1	3268 E 1	3722 F 2	9302 A 2
2280 H 1	3269 A 1	3723 F 3	9303 A 3
2320 B 4	3270 B 4	3724 D 2	9304 A 2
2321 B 3	3271 E 1	3725 E 3	9305 H 5
2322 C 4	3272 H 1	3726 E 2	9306 G 5
2323 C 3	3273 A 1	3727 E 3	9307 E 4
2328 A 4	3274 A 1	3728 D 5	9308 H 5
2329 A 5	3275 B 1	3729 D 5	9309 E 4
2331 B 5	3276 A 1	3730 D 3	9310 B 4
2332 A 5	3277 B 1	3731 D 3	9311 B 1
2334 A 3	3278 B 2	3734 D 4	9312 C 4
2335 C 2	3279 A 1	3735 D 4	9313 F 4
2338 B 4	3280 A 2	3736 D 4	9314 A 4
2339 B 3	3281 D 1	3737 E 3	9315 A 3
2340 H 4	3282 E 1	3738 D 4	9316 H 4
2341 H 4	3283 F 1	3739 E 4	9317 A 2
2342 A 4	3284 E 1	3742 D 4	9318 E 1
2343 A 4	3285 F 1	3743 C 3	9319 A 2
2357 C 3	3286 F 1	3744 D 1	9320 B 1
2538 C 4	3287 E 1	3745 C 3	9321 A 5
2551 G 2	3288 E 1	3746 E 2	9322 A 2
2552 G 2	3289 E 1	3747 D 2	9323 D 4
2553 G 4	3290 F 4	3748 D 3	9324 F 1
2554 G 4	3291 H 5	3750 E 2	9325 G 3
2555 G 4	3292 B 5	3751 E 3	9326 H 5
2556 G 4	3293 G 1	3753 C 5	9327 C 4
2557 G 2	3294 G 1	3754 G 2	9328 F 5
2558 G 2	3295 G 1	3756 D 1	9329 A 2
2559 G 2	3296 G 1	3757 G 2	9330 H 5
2560 G 4	3298 C 5	3758 D 1	9331 F 4
2561 G 2	3320 B 4	3759 D 4	9332 E 3
2562 G 4	3321 B 3	3760 D 1	9333 F 3
2563 G 3	3324 B 4	3761 C 1	9334 A 5
2564 G 4	3325 B 3	3763 D 2	9335 B 3
2565 G 2	3326 H 5	3764 C 1	9336 D 5
2566 B 4	3327 B 5	3765 C 1	9337 F 5
2567 G 2	3329 A 4	3766 D 1	9339 C 1
2568 G 4	3330 A 4	3768 C 2	9340 A 5
2569 G 2	3331 C 1	3769 D 1	9341 D 2
2570 H 4	3332 B 2	3770 C 2	9342 D 3
2571 G 2	3333 B 2	3771 E 4	9343 E 5
2572 G 4	3334 B 2	3772 F 4	9344 A 5
2590 G 3	3335 B 3	3775 F 4	9345 G 2
2591 G 3	3336 B 2	3776 F 4	9346 A 2
2593 H 4	3337 B 2	3777 E 4	9347 H 5
2700 F 3	3338 H 1	3778 F 4	9348 C 5
2701 F 3	3339 A 4	3779 D 3	9349 H 5
2702 E 4	3340 A 4	3781 D 4	9350 F 2
2703 E 4	3341 C 3	3782 C 3	9351 F 5
2704 F 2	3342 B 4	3783 F 4	9352 H 1
2705 F 3	3355 G 5	3784 F 3	9353 B 1
2706 D 2	3352 G 5	3790 C 5	9356 C 3
2707 E 3	3353 G 5	3791 H 1	9357 G 3
2708 F 2	3354 G 5	3795 E 5	9358 F 3
2709 F 3	3355 G 2	3796 E 5	
2710 F 4	3356 H 4	3797 E 3	
2711 E 3	3357 G 2	3798 E 2	
2712 E 2	3358 H 4	5700 C 4	
2713 F 2	3359 G 5	6270 E 1	
2714 D 5	3360 F 5	6271 E 1	
2715 E 2	3361 H 3	6272 A 1	
2716 E 2	3362 H 4	6273 A 2	
2717 D 5	3363 H 3	6274 E 1	
2718 D 2	3364 H 2	6275 E 1	
2719 F 2	3365 G 3	6278 B 5	
2720 F 2	3366 G 4	6279 H 5	
2721 F 3	3367 G 2	6290 B 2	
2722 D 4	3368 G 4	6700 D 3	
2723 D 2	3370 G 4	6710 D 3	
2725 E 3	3371 G 3	6711 D 1	
2727 D 3	3372 G 4	6712 D 1	
2729 E 4	3373 G 3	7270 A 1	
2730 C 3	3374 G 3	7271 B 1	
2731 C 3	3375 G 2	7272 A 1	
2732 D 3	3376 G 3	7273 A 1	
2733 C 4	3377 G 2	7274 F 1	

LF-MAINS BOARD

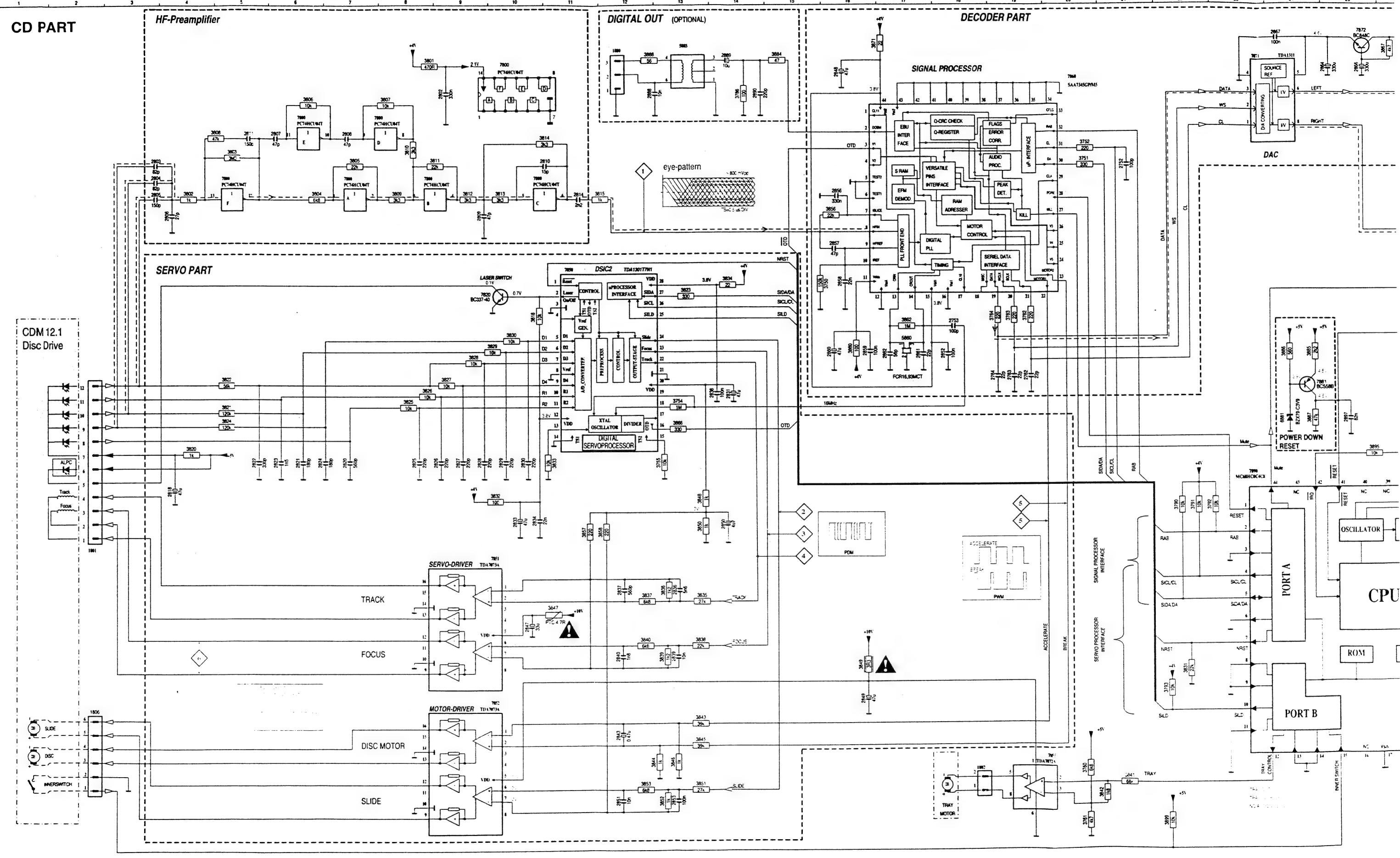


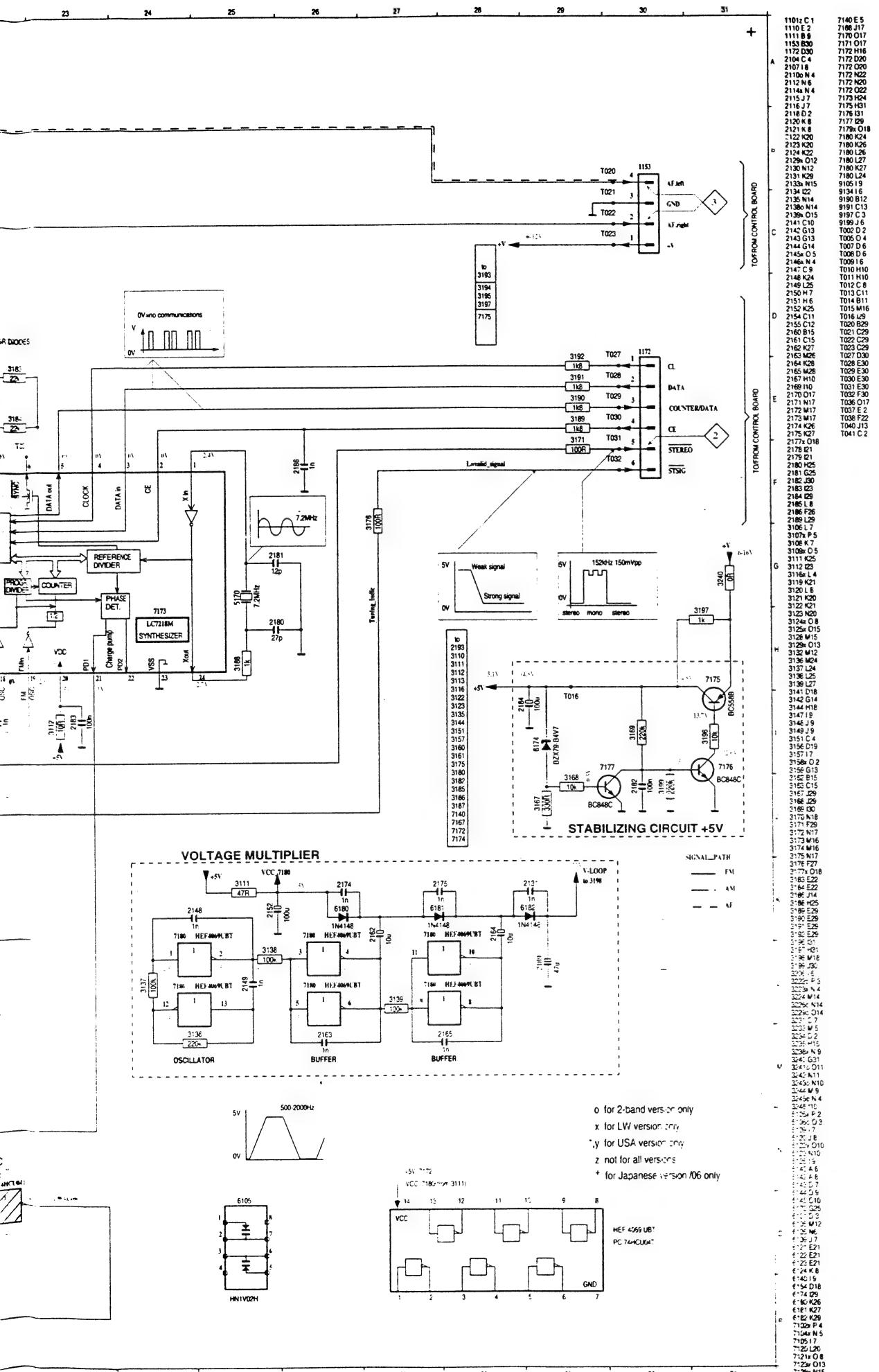


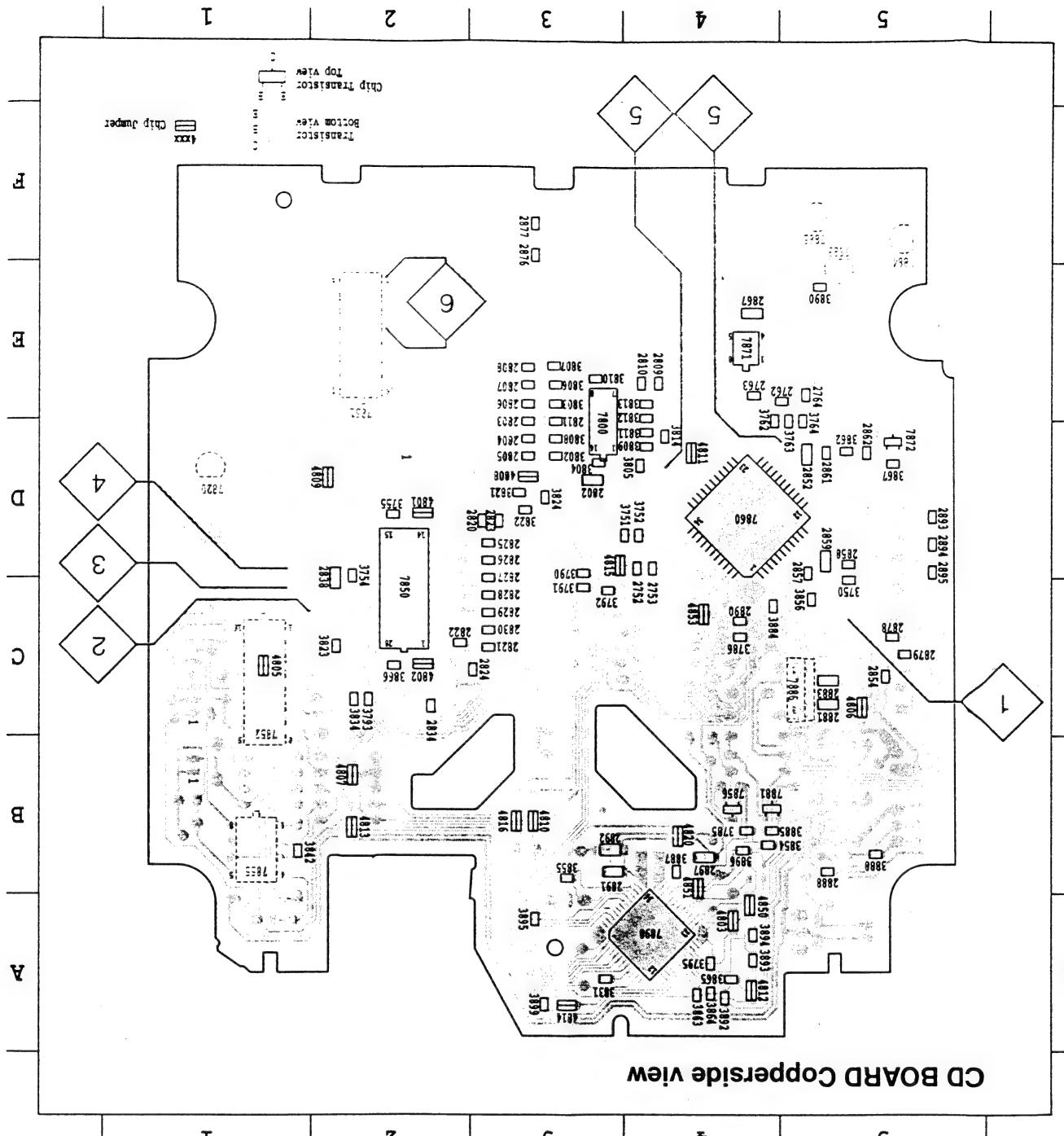
TUNER UNIT ECO4-VA (PA)

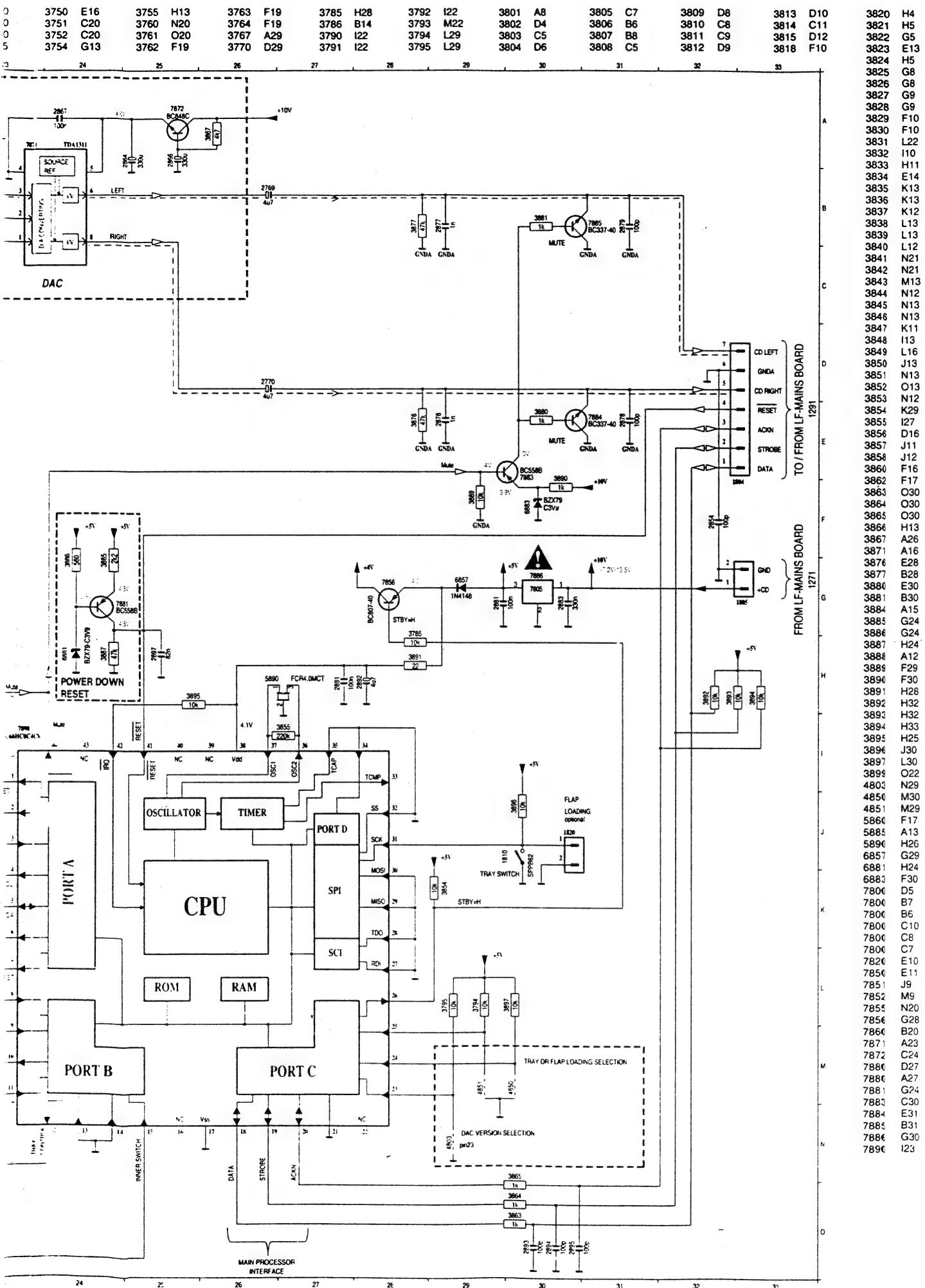


J2	1806	O2	2752	C21	2764	G19	2803	C3	2807	C6	2811	C5	2821	H6	2825	H8	2829	H10	2834	J10	2839	L13	2848	A16	2852	G18	2857	E16	2861	G17	2867	A24	2879	B31	2889	A14	2893	O30	3750	E16	3755	H13
N18	1810	J30	2753	F18	2769	B26	2804	C3	2808	C7	2814	D11	2822	H5	2826	H9	2830	H10	2836	K13	2840	L12	2849	M16	2853	O13	2858	E16	2862	G17	2876	E29	2881	G29	2890	B14	2894	O30	3751	C20	3760	N20
F32	1820	J30	2762	G19	2770	D26	2805	D3	2809	D9	2818	I4	2823	H6	2827	H9	2831	H14	2837	K12	2850	J14	2854	F32	2859	F16	2864	A25	2877	B29	2883	G30	2891	H27	2895	O30	3752	C20	3761	O20		
G32	1880	A12	2763	G19	2802	B9	2806	D4	2810	C11	2820	H7	2824	H6	2828	H9	2833	J10	2838	H14	2847	L10	2851	O12	2856	D16	2860	F16	2866	A25	2878	E31	2888	B12	2892	H28	2897	H25	3754	G13	3762	F19

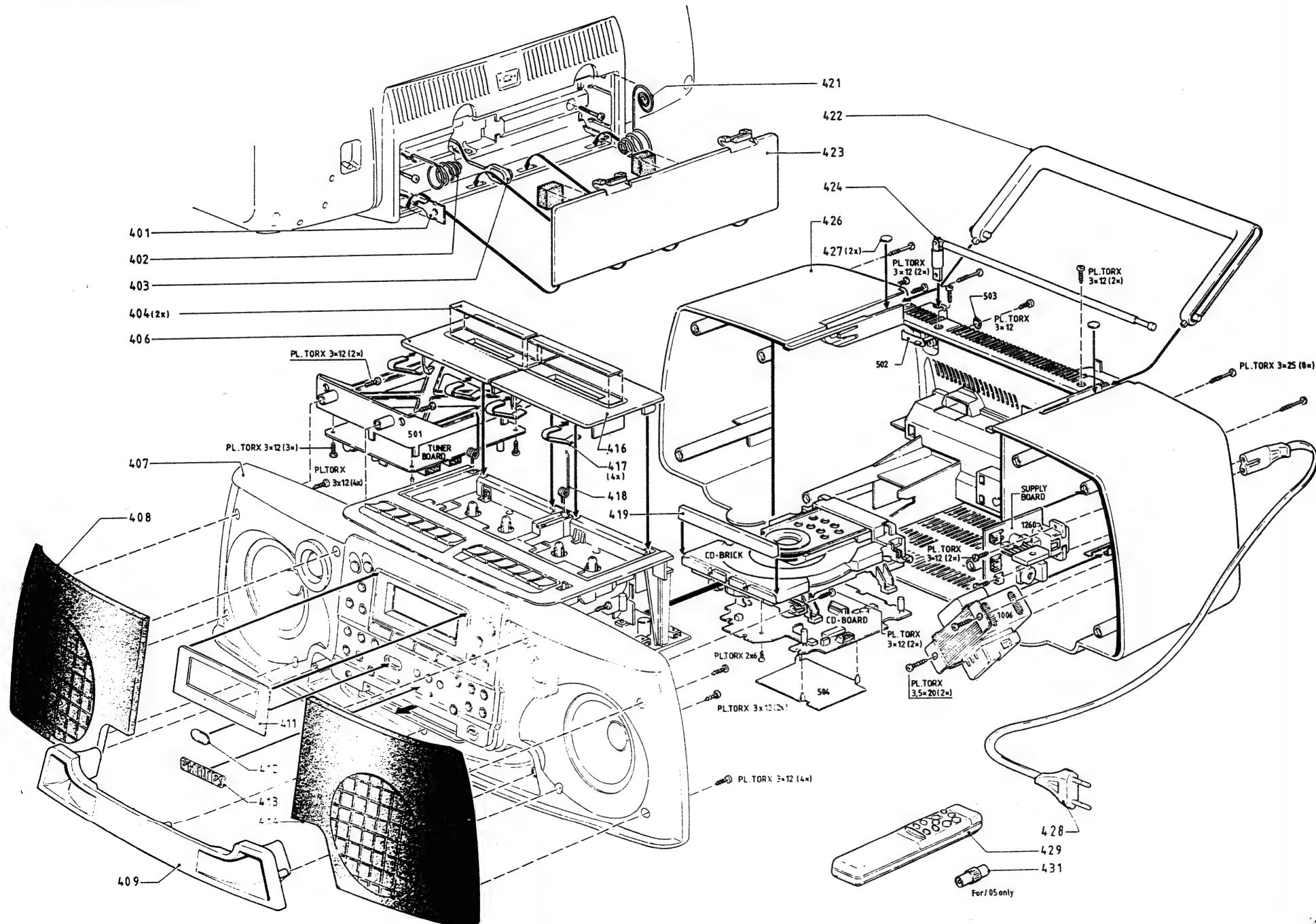




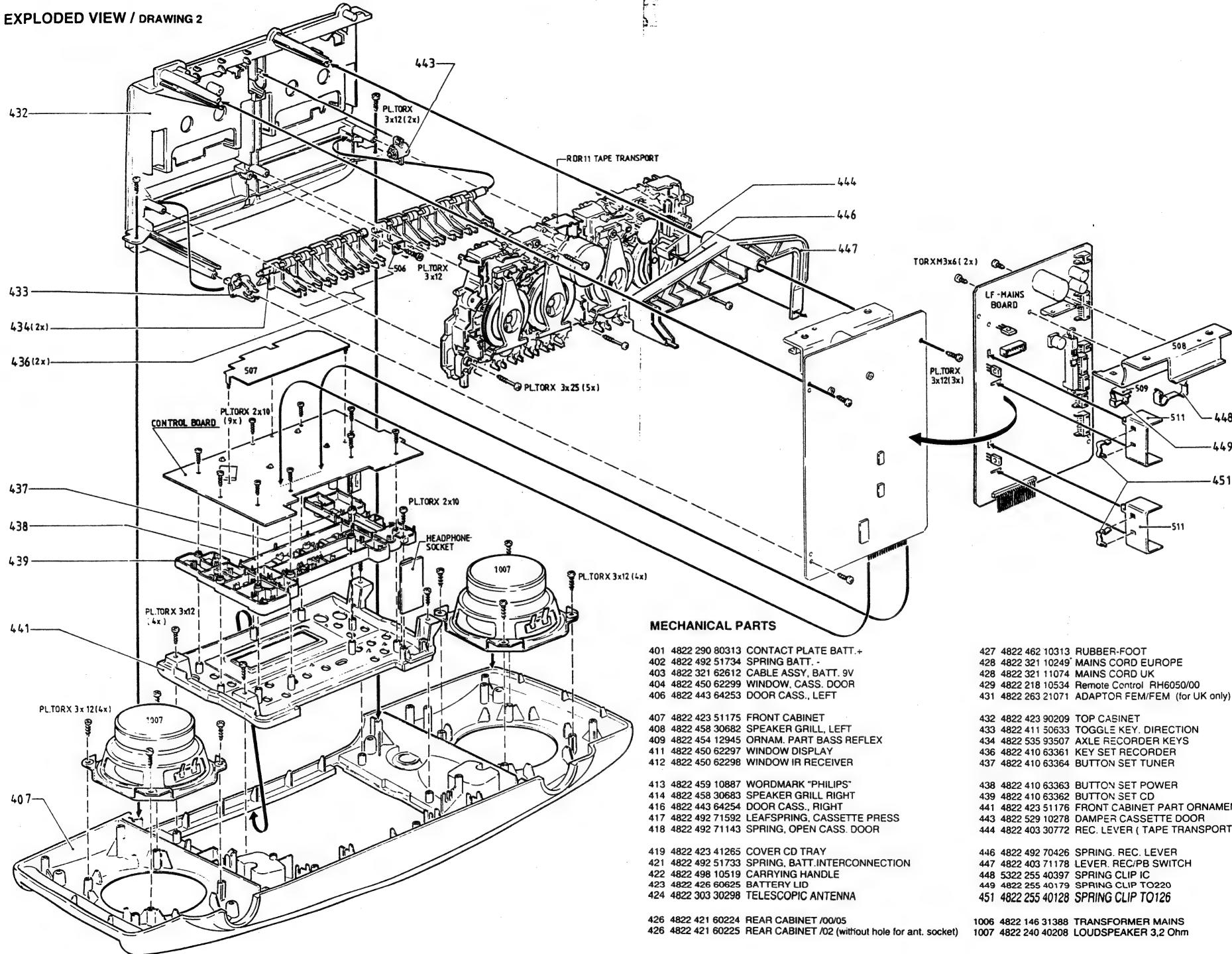


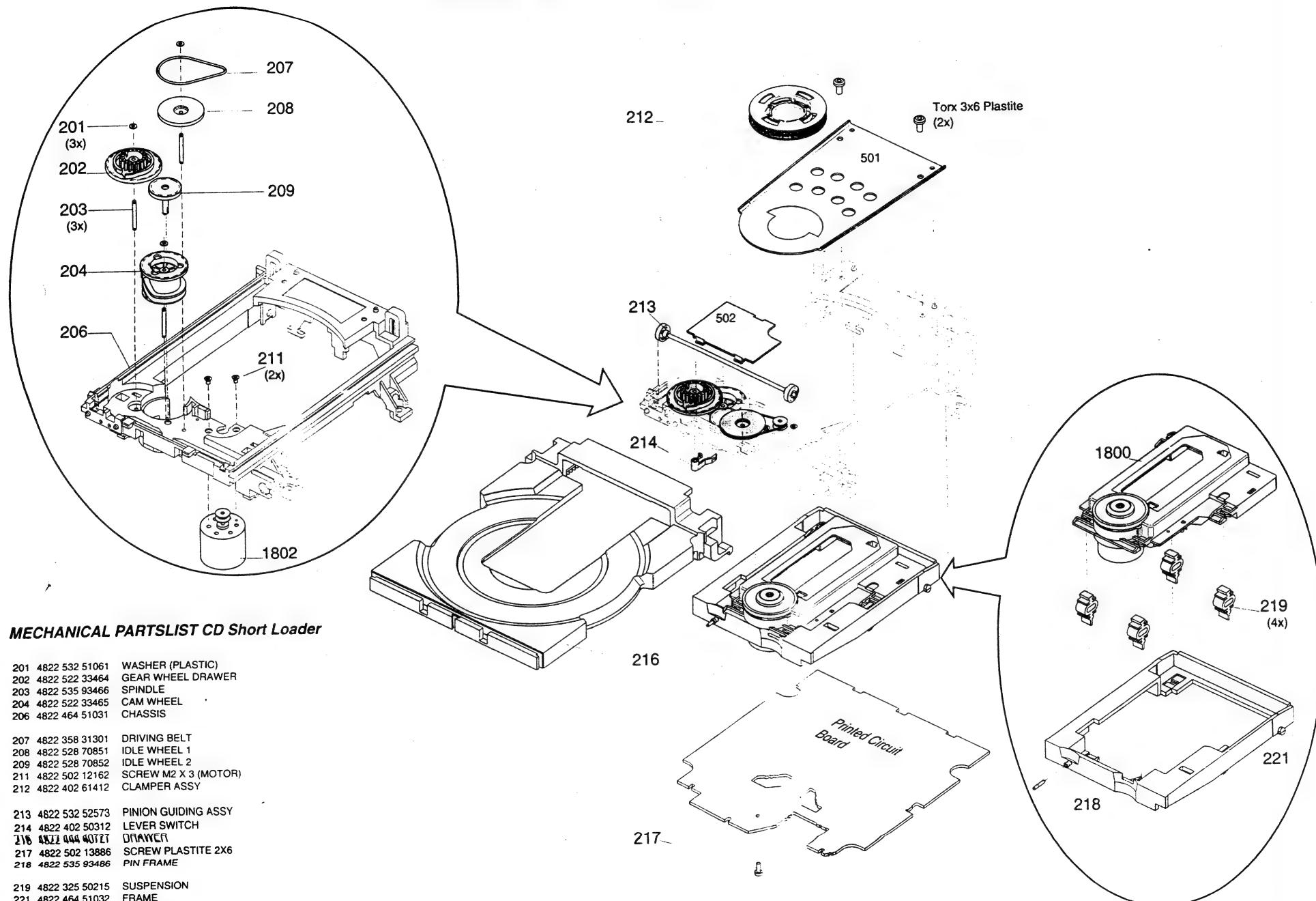


EXPLODED VIEW / DRAWING 1



EXPLODED VIEW / DRAWING 2



Exploded view CD Short Loader*MECHANICAL PARTSLIST CD Short Loader*

201 4822 532 51061	WASHER (PLASTIC)
202 4822 522 33464	GEAR WHEEL DRAWER
203 4822 535 93466	SPINDLE
204 4822 522 33465	CAM WHEEL
206 4822 464 51031	CHASSIS
207 4822 358 31301	DRIVING BELT
208 4822 528 70851	IDLE WHEEL 1
209 4822 528 70852	IDLE WHEEL 2
211 4822 502 12162	SCREW M2 X 3 (MOTOR)
212 4822 402 61412	CLAMPER ASSY
213 4822 532 52573	PINION GUIDING ASSY
214 4822 402 50312	LEVER SWITCH
216 4822 444 90121	DRAWER
217 4822 502 13886	SCREW PLASTITE 2X6
218 4822 535 93486	PIN FRAME
219 4822 325 50215	SUSPENSION
221 4822 464 51032	FRAME
1800 4822 691 30278	CDM 12.1 ASSY
1802 4822 361 21708	MOTOR ASSY
4822 502 30735	SCREW 3 X 6 PLASTITE

LF-MAINS BOARD

MISCELLANEOUS

1260 4822 285 20287 SOCKET, MAINS
 1264 4822 071 52502 FUSE 2.5A
 1322 4822 267 31607 SOCKET, HEADPHONE
 1700 4822 277 20594 SWITCH SLIDE, REC/PB

DIODES

6261 4822 130 82078 D5SBA20
 6270 4822 130 30621 1N4148
 6271 4822 130 30621 1N4148
 6272 4822 130 30621 1N4148
 6273 4822 130 34278 BZX79-F6V8
 6274 4822 130 30621 1N4148
 6275 4822 130 34278 BZX79-F6V8
 6276 4822 130 30621 1N4148
 6277 4822 130 30621 1N4148
 6278 4822 130 30621 1N4148
 6279 4822 130 30621 1N4148
 6280 4822 130 30621 1N4148
 6290 4822 130 30621 1N4148
 6700 4822 130 30621 1N4148
 6710 4822 130 30621 1N4148
 6711 4822 130 30621 1N4148
 6712 4822 130 30621 1N4148

TRANSISTORS

7270 4822 130 44196 BC548C
 7271 5322 130 60268 BD238
 7272 4822 130 41344 BC337-40
 7273 4822 130 44196 BC548C
 7274 4822 130 44196 BC548C
 7275 4822 130 41344 BC337-40
 7276 5322 130 60268 BD238
 7277 4822 130 44196 BC548C
 7278 4822 130 41327 BC327-40
 7279 4822 130 44196 BC548C
 7280 5322 130 60068 BC558C
 7321 5322 130 60068 BC558C
 7322 4822 130 44196 BC548C
 7323 4822 130 44196 BC548C
 7324 4822 130 44196 BC548C
 7702 4822 130 44196 BC548C
 7703 4822 130 44196 BC548C
 7704 4822 130 41344 BC337-40
 7707 5322 130 60068 BC558C
 7708 4822 130 44196 BC548C
 7709 5322 130 60268 BD238
 7710 4822 130 44196 BC548C
 7711 4822 130 44196 BC548C
 7712 4822 130 44196 BC548C

INTEGRATED CIRCUITS

7290 4822 209 33664 AN7135
 7501 4822 209 33652 TEA6321TV1
 7502 4822 209 83357 NJM4560M
 7700 4822 209 32918 AN7318S
 7701 4822 209 32918 AN7318S

COILS

5260 4822 157 70003 COIL, MAINS FILTER
 5302 4822 157 62552 COIL 2.2EH
 5700 4822 156 20946 OSC.COIL 100KHz

RESISTORS

3268 4822 116 52217 270R 5% 0.5W
 3269 4822 116 52217 270R 5% 0.5W
 3270 4822 116 52199 68R 5% 0.16W
 3271 4822 116 52244 15k 5% 0.5W
 3272 4822 116 52244 470R 5% 0.5W
 3273 4822 116 52234 100k 5% 0.5W
 3274 4822 116 52303 8k2 5% 0.5W
 3275 4822 116 52256 2k2 5% 0.16W
 3276 4822 116 52215 220R 5% 0.16W
 3277 4822 116 52215 220R 5% 0.16W
 3278 4822 116 52244 15k 5% 0.5W
 3279 4822 116 52224 470R 5% 0.5W
 3280 4822 116 52211 150R 5% 0.5W
 3281 4822 116 52224 470R 5% 0.5W
 3282 4822 116 52234 100k 5% 0.5W
 3283 4822 116 52256 2k2 5% 0.16W
 3284 4822 116 52238 12k 5% 0.5W
 3285 4822 116 52215 220R 5% 0.16W
 3286 4822 116 52215 220R 5% 0.16W
 3287 4822 116 52244 15k 5% 0.5W
 3288 4822 116 52224 470R 5% 0.5W
 3289 4822 116 52215 220R 5% 0.16W
 3290 4822 116 52244 15k 5% 0.5W
 3291 4822 116 52284 47k 5% 0.5W
 3292 4822 116 52199 68R 5% 0.16W
 3293 4822 116 52263 2k7 5% 0.5W
 3294 4822 116 52263 4k7 5% 0.5W
 3295 4822 116 52234 100k 5% 0.5W
 3296 4822 111 30893 4M7 5% 0.2W
 3298 4822 116 52224 470R 5% 0.5W
 3299 4822 116 52193 39k 5% 0.16W
 3320 4822 050 11002 1k 5% 0.2W
 3321 4822 050 11002 1k 5% 0.2W
 3324 4822 116 52222 390R 5% 0.16W
 3325 4822 116 52222 390R 5% 0.16W
 3326 4822 116 52211 150R 5% 0.5W
 3327 4822 116 52211 150R 5% 0.5W
 3329 4822 052 10228 2R2 5% 0.33W
 3330 4822 052 10228 2R2 5% 0.33W
 3331 4822 116 52285 470k 5% 0.5W
 3332 4822 116 52258 220k 5% 0.5W
 3333 4822 116 81682 2M2 5% 0.5W
 3334 4822 116 52222 390R 5% 0.16W
 3335 4822 116 52222 390R 5% 0.16W
 3336 4822 116 52284 47k 5% 0.5W
 3337 4822 116 52271 33k 5% 0.16W
 3338 4822 116 52234 100k 5% 0.5W
 3339 4822 116 52233 10k 5% 0.5W
 3340 4822 116 52233 10k 5% 0.5W
 3341 4822 116 52269 3k3 5% 0.16W
 3342 4822 116 52269 3k3 5% 0.16W
 3551 4822 116 52263 2k7 5% 0.16W
 3552 4822 116 52263 2k7 5% 0.16W
 3553 4822 116 52249 1k8 5% 0.16W
 3554 4822 116 52249 1k8 5% 0.16W

RESISTORS

3555 4822 116 52251 18k 5% 0.5W
 3556 4822 116 52251 18k 5% 0.5W
 3557 4822 116 52256 2k2 5% 0.16W
 3558 4822 116 52256 2k2 5% 0.16W
 3559 4822 116 52283 4k7 5% 0.5W
 3560 4822 116 52283 4k7 5% 0.5W
 3561 4822 116 52303 8k2 5% 0.16W
 3562 4822 116 52303 8k2 5% 0.16W
 3563 4822 116 52283 4k7 5% 0.5W
 3564 4822 116 52283 4k7 5% 0.5W
 3565 4822 116 52233 10k 5% 0.5W
 3566 4822 116 52233 10k 5% 0.5W
 3567 4822 116 52289 5k6 5% 0.16W
 3568 4822 116 52289 5k6 5% 0.16W
 3570 4822 116 52283 4k7 5% 0.5W
 3571 4822 116 52283 4k7 5% 0.5W
 3572 4822 116 52283 4k7 5% 0.5W
 3573 4822 116 52283 4k7 5% 0.5W
 3574 4822 116 52283 4k7 5% 0.5W
 3575 4822 116 52283 4k7 5% 0.5W
 3703 4822 116 52243 1k5 5% 0.5W
 3704 4822 116 52244 470R 5% 0.5W
 3705 4822 116 52224 470R 5% 0.5W
 3706 4822 116 52215 220R 5% 0.16W
 3707 4822 116 52215 220R 5% 0.16W
 3708 4822 116 52175 100R 5% 0.5W
 3709 4822 116 52175 100R 5% 0.5W
 3710 4822 116 52277 39k 5% 0.5W
 3711 4822 116 52277 39k 5% 0.5W
 3712 4822 116 52224 470R 5% 0.5W
 3713 4822 116 52224 470R 5% 0.5W
 3714 4822 116 52215 220R 5% 0.16W
 3715 4822 116 52215 220R 5% 0.16W
 3716 4822 116 52175 100R 5% 0.5W
 3717 4822 116 52175 100R 5% 0.5W
 3723 4822 116 52244 15k 5% 0.5W
 3724 4822 116 52244 15k 5% 0.5W
 3725 4822 116 52244 15k 5% 0.5W
 3726 4822 116 52244 15k 5% 0.5W
 3727 4822 116 52244 15k 5% 0.5W
 3728 4822 116 52244 15k 5% 0.5W
 3729 4822 116 52244 15k 5% 0.5W
 3730 4822 116 52234 100k 5% 0.5W
 3731 4822 116 52234 100k 5% 0.5W
 3732 4822 116 52234 100k 5% 0.5W
 3733 4822 116 52234 100k 5% 0.5W
 3734 4822 116 52244 15k 5% 0.5W
 3735 4822 116 52244 15k 5% 0.5W
 3736 4822 116 52276 270k 5% 0.5W
 3726 4822 116 52265 270k 5% 0.5W
 3727 4822 116 52265 270k 5% 0.5W
 3728 4822 116 52244 15k 5% 0.5W
 3729 4822 116 52244 15k 5% 0.5W
 3730 4822 116 52234 100k 5% 0.5W
 3731 4822 116 52234 100k 5% 0.5W
 3732 4822 116 52234 100k 5% 0.5W
 3733 4822 116 52244 15k 5% 0.5W
 3734 4822 116 52244 15k 5% 0.5W
 3735 4822 116 52244 15k 5% 0.5W
 3736 4822 116 52276 3k9 5% 0.5W
 3737 4822 116 52276 3k9 5% 0.5W
 3738 4822 116 52284 47k 5% 0.5W
 3739 4822 116 52284 47k 5% 0.5W
 3742 4822 116 52292 560k 5% 0.5W
 3743 4822 116 52186 22R 5% 0.5W
 3744 4822 116 52233 10k 5% 0.5W
 3745 4822 116 52179 12R 5% 0.5W

RESISTORS

3746 4822 111 30893 4M7 5% 0.2W
 3747 4822 116 52234 100k 5% 0.5W
 3748 4822 116 52258 220k 5% 0.5W
 3750 4822 116 52256 2k2 5% 0.16W
 3751 4822 116 52256 2k2 5% 0.16W
 3753 4822 116 52285 470k 5% 0.5W
 3754 4822 116 52233 10k 5% 0.5W
 3756 4822 116 52289 5k6 5% 0.16W
 3757 4822 116 52233 10k 5% 0.5W
 3758 4822 050 11002 1k 5% 0.2W
 3759 4822 116 52292 560k 5% 0.16W
 3760 4822 116 52215 220R 5% 0.16W
 3761 4822 116 52215 220R 5% 0.16W
 3763 4822 116 52233 10k 5% 0.5W
 3764 4822 116 52228 680R 5% 0.5W
 3765 4822 116 52296 6k8 5% 0.5W
 3766 4822 116 52269 3k3 5% 0.5W
 3768 4822 116 52298 680k 5% 0.5W
 3769 4822 116 52238 12k 5% 0.5W
 3770 4822 116 52298 680k 5% 0.5W
 3771 4822 116 52251 18k 5% 0.16W
 3772 4822 116 52251 18k 5% 0.16W
 3775 4822 116 52297 68k 5% 0.5W
 3776 4822 116 52297 68k 5% 0.5W
 3777 4822 116 52257 22k 5% 0.5W
 3778 4822 116 52257 22k 5% 0.5W
 3779 4822 116 52191 33R 5% 0.5W
 3781 4822 116 52233 10k 5% 0.5W
 3782 4822 116 52296 6k8 5% 0.5W
 3783 4822 116 52234 100k 5% 0.5W
 3784 4822 116 52234 100k 5% 0.5W
 3790 4822 116 52258 220k 5% 0.5W
 3791 4822 050 11002 1k 5% 0.2W
 3795 4822 116 80176 1R 5% 0.5W
 3796 4822 116 80176 1R 5% 0.5W
 3797 4822 116 52249 1k8 5% 0.16W
 3798 4822 116 52249 1k8 5% 0.16W

CHIP RESISTORS FROM PRINT STAGE .5 ONWARDS

3590 4822 051 10008 CHIP JUMPER 1206
 3591 4822 051 20008 CHIP JUMPER 0805

CAPACITORS

2260 4822 121 70087 47nF 10% 250V
 2261 4822 121 42408 220nF 5% 63V
 2262 4822 121 42408 220nF 5% 63V
 2263 4822 121 42408 220nF 5% 63V
 2264 4822 121 42408 220nF 5% 63V
 2267 4822 124 40242 1μF 20% 63V
 2268 4822 124 40242 1μF 20% 63V
 2270 4822 124 42119 4700μF 20% 25V
 2271 4822 126 12882 100nF 5% 50V
 2272 5322 121 42386 100nF 5% 63V
 2273 4822 124 41525 100μF 20% 25V
 2274 4822 126 12882 100nF 5% 63V
 2275 5322 121 42386 100nF 5% 63V
 2276 4822 124 41525 100μF 20% 25V
 2277 4822 124 41584 100μF 20% 10V
 2278 4822 124 41576 2.2μF 20% 50V
 2279 4822 124 40246 4.7μF 20% 63V
 2280 4822 126 12882 100nF 50V
 2320 4822 126 12339 2.2nF 10% 16V
 2321 4822 126 12339 2.2nF 10% 16V

CAPACITORS					
2322	4822 124 40248	10µF	20%	63V	
2323	4822 124 40248	10µF	20%	63V	
2328	4822 124 40433	47µF	20%	25V	
2329	4822 124 40433	47µF	20%	25V	
2331	4822 124 40184	1000µF	20%	10V	
2332	4822 124 40184	1000µF	20%	10V	
2334	4822 124 22263	220µF	20%	25V	
2335	4822 124 41584	100µF	20%	10V	
2338	4822 126 12339	2,2nF	10%	16V	
2339	4822 126 12339	2,2nF	10%	16V	
2340	4822 121 51387	10nF	20%	16V	
2341	4822 121 51387	10nF	20%	16V	
2342	4822 121 42408	220nF	5%	63V	
2343	4822 121 42408	220nF	5%	63V	
2537	4822 124 40746	0,22µF	20%	63V	
2538	4822 124 40746	0,22µF	20%	63V	
2551	4822 126 12785	47nF	50V		
2552	4822 126 12785	47nF	50V		
2553	4822 126 12785	47nF	50V		
2554	4822 126 12785	47nF	50V		
2555	4822 126 12785	47nF	50V		
2556	4822 126 12785	47nF	50V		
2557	4822 126 12785	47nF	50V		
2558	4822 126 12785	47nF	50V		
2559	5322 121 42465	68nF	10%	63V	
2560	5322 121 42465	68nF	10%	63V	
2561	4822 121 42408	220nF	5%	63V	
2562	4822 121 42408	220nF	5%	63V	
2563	5322 121 42386	100nF	5%	63V	
2564	5322 121 42386	100nF	5%	63V	
2565	4822 126 13151	3,9nF	10%	16V	
2566	4822 126 13151	3,9nF	10%	16V	
2567	5322 121 42386	100nF	5%	63V	
2568	5322 121 42386	100nF	5%	63V	
2569	4822 126 11714	4,7nF	20%		
2570	4822 126 11714	4,7nF	20%		
2571	4822 122 33849	150pF	5%	50V	
2572	4822 122 33849	150pF	5%	50V	
2590	4822 124 40177	47µF	20%	10V	
2591	4822 124 41584	100µF	20%	10V	
2593	4822 124 80791	470pF	20%	16V	
2700	4822 122 10459	560pF	10%	50V	
2701	4822 122 10459	560pF	10%	50V	
2702	4822 122 10459	560pF	10%	50V	
2703	4822 122 10459	560pF	10%	50V	
2704	4822 124 41584	100µF	20%	10V	
2705	4822 124 41584	100µF	20%	10V	
2706	4822 124 41584	100µF	20%	10V	
2707	4822 124 41584	100µF	20%	10V	
2708	4822 122 33519	470pF	10%	50V	
2709	4822 122 33519	470pF	10%	50V	
2710	4822 122 10576	1,8nF	10%	50V	
2711	4822 122 33519	470pF	10%	50V	
2712	4822 122 33519	470pF	10%	50V	
2713	4822 124 40433	47µF	20%	25V	
2714	4822 126 12878	1,5nF	10%	16V	
2715	4822 124 40433	47µF	20%	25V	
2716	4822 126 10329	68pF	5%	50V	
2717	4822 126 12878	1,5nF	10%	16V	
2718	4822 124 40248	10µF	20%	63V	
2719	4822 124 40248	10µF	20%	63V	
2720	4822 126 11593	10nF	10%	50V	
2721	4822 126 11593	10nF	10%	50V	

CAPACITORS					
2722	4822 126 11593	10nF	10%	50V	
2723	5322 124 41431	22µF	20%	25V	
2725	4822 126 10329	68pF	5%	50V	
2727	4822 124 40248	10µF	20%	63V	
2729	4822 126 11593	10nF	10%	50V	
2730	4822 121 41857	10nF	5%	250V	
2731	4822 121 51387	10nF	20%	16V	
2732	4822 126 11714	4,7nF	20%		
2733	4822 121 41935	12nF	5%	250V	
2738	4822 121 51387	10nF	20%	16V	
2739	4822 122 10576	1,8nF	10%	50V	
2742	4822 126 11593	10nF	10%	50V	
2744	4822 122 10577	3,3nF	10%	16V	
2745	4822 122 10577	3,3nF	10%	16V	
2746	4822 124 40248	10µF	20%	63V	
2747	4822 122 33195	100pF	10%	50V	
2748	4822 122 33195	100pF	10%	50V	
2749	4822 126 11593	10nF	10%	50V	
2750	4822 124 40246	4,7µF	20%	63V	
2751	4822 124 40196	220pF	20%	16V	
2753	4822 122 10576	1,8nF	10%	16V	
2754	4822 122 10576	1,8nF	10%	16V	
2755	4822 122 33519	470pF	10%	50V	
2756	4822 122 33519	470pF	10%	50V	
2758	4822 124 40433	47µF	20%	25V	
2759	4822 126 10778	220pF	5%	50V	
2760	4822 121 43897	1nF	5%	50V	
2761	4822 121 41856	22nF	10%	50V	
2762	4822 121 41856	22nF	10%	50V	
2763	4822 124 40246	4,7µF	20%	63V	
2765	4822 124 40248	10µF	20%	63V	
FOR PRINT STAGE .4 ONLY					
2766	4822 122 33519	470pF	10%	50V	
2767	4822 122 33519	470pF	10%	50V	
CHIP CAPACITORS					
2766	5322 122 32268	470pF	10%	50V	
2767	5322 122 32268	470pF	10%	50V	

TUNER BOARD ECO4VA-PA		
MISCELLANEOUS		
1101	4822 267 10283	
DIODES		
6101	4822 130 30621	1N4148
6105	4822 130 83075	HN1V02H (TUNING DIODE)
6109	4822 130 82833	1SV228 (TUNING DIODE)
6121	4822 130 30621	1N4148
6122	4822 130 30621	1N4148
6123	4822 130 30621	1N4148
6124	4822 130 82833	1SV228 (TUNING DIODE)
6140	4822 130 30621	1N4148
6154	4822 130 30621	1N4148
6174	4822 130 34174	BZX79-B4V7
6180	4822 130 30621	1N4148
6181	4822 130 30621	1N4148
6182	4822 130 30621	1N4148
TRANSISTORS		
7102	5322 130 42136	BC848C(CHIP)
7104	5322 130 42136	BC848C(CHIP)
7105	4822 130 60093	2SA838B
7120	4822 130 60163	2SC1047
7121	5322 130 42136	BC848C(CHIP)
7123	5322 130 42136	BC848C(CHIP)
7128	5322 130 42136	BC848C(CHIP)
7168	5322 130 41983	BC558B(CHIP)
7170	5322 130 42136	BC848C(CHIP)
7171	5322 130 42136	BC848C(CHIP)
7175	4822 130 44197	BC558B
7176	5322 130 42136	BC848C(CHIP)
7177	5322 130 42136	BC848C(CHIP)
7179	5322 130 42136	BC848C(CHIP)
INTEGRATED CIRCUITS		
7140	4822 209 32701	TEA5712T/N2 (RF IC)
7172	5322 209 11517	PC74HC04T (6x INVERTER)
7173	4822 209 31998	LC7218M (SYNTHESIZER)
7180	5322 209 14482	HEF4069UBT (6x INVERTER)
COILS		
5105	4822 158 60641	FERRITE ANT., MW/LW
5106	4822 158 60642	FERRITE ANT., MW
5109	4822 158 30947	RF COIL 1,5 TURNS
5120	4822 158 30947	RF COIL 1,5 TURNS
5122	4822 157 60517	OSC. COIL LW
5123	4822 157 60517	OSC. COIL MW
5140	4822 158 60511	AM-IF FILTER 450kHz
5142	4822 157 70302	AM-IF FILTER 450kHz
5143	4822 242 70665	CER. FILTER 10,7MHz
5144	4822 242 70665	CER. FILTER 10,7MHz
5145	4822 242 81362	CER. DISCRIMINATOR
5170	4822 242 72976	CER. RESONATOR 7.2MHz
RESISTORS		
3112	4822 116 52176	10R 5% 0,5W
3119	4822 116 52224	470R 5% 0,5W
3120	4822 116 52289	5k6 5% 0,16W
3124	4822 116 52256	2k2 5% 0,16W
3132	4822 116 52283	4k7 5% 0,5W
3141	4822 116 52215	220R 5% 0,16W
3148	4822 100 11163	TRIMPOT. 100k lin.
3151	4822 116 52243	1k5 5% 0,16W
3156	4822 116 52233	10k 5% 0,5W
3162	4822 050 11002	1k 5% 0,2W
3163	4822 050 11002	1k 5% 0,2W
3170	4822 116 52283	4k7 5% 0,5W
3173	4822 116 52244	15k 5% 0,5W
3174	4822 116 52233	10k 5% 0,5W
3177	4822 116 52233	10k 5% 0,5W
3189	4822 116 52249	1k8 5% 0,16W
3190	4822 116 52249	1k8 5% 0,16W
3191	4822 116 52249	1k8 5% 0,16W
3192	4822 116 52249	1k8 5% 0,16W
3196	4822 116 52233	10k 5% 0,5W
3197	4822 050 11002	1k 5% 0,2W
3198	4822 116 52256	2k2 5% 0,16W
3206	4822 116 52215	220R 5% 0,16W
CHIP RESISTORS		
3106	4822 051 20104	100k 5% 0,1W
3107	4822 051 20222	2k2 5% 0,1W
3108	4822 051 20104	100k 5% 0,1W
3109	4822 051 20222	2k 5% 0,1W
3111	4822 051 20479	47R 5% 0,1W
3116	4822 051 20335	3M3 5% 0,1W
3121	4822 051 20104	100k 5% 0,1W
3122	4822 051 20471	470R 5% 0,1W
3123	4822 051 20223	22k 5% 0,1W
3125	4822 051 20472	4k7 5% 0,1W
3128	4822 117 10833	10k 1% 0,1W
3129	4822 051 20472	4k7 5% 0,1W
3136	4822 051 20224	220k 5% 0,1W
3137	4822 051 20104	100k 5% 0,1W
3138	4822 051 20104	100k 5% 0,1W
3139	4822 051 20104	100k 5% 0,1W
3142	4822 051 20222	2k2 5% 0,1W
3144	4822 117 10833	10k 1% 0,1W
3147	4822 051 20184	180k 5% 0,1W</

CHIP RESISTORS

3216 4822 051 10006 CHIP JUMPER 1206
 3222 4822 051 20008 CHIP JUMPER 0805
 3223 4822 051 20008 CHIP JUMPER 0805
 3224 4822 051 20008 CHIP JUMPER 0805
 3226 4822 051 20008 CHIP JUMPER 0805

3228 4822 051 10008 CHIP JUMPER 1206
 3229 4822 051 20008 CHIP JUMPER 0805
 3231 4822 051 20008 CHIP JUMPER 0805
 3233 4822 051 20008 CHIP JUMPER 0805
 3234 4822 051 20008 CHIP JUMPER 0805

3235 4822 051 20008 CHIP JUMPER 0805
 3237 4822 051 10008 CHIP JUMPER 1206
 3238 4822 051 20008 CHIP JUMPER 0805
 3240 4822 051 10008 CHIP JUMPER 1206
 3241 4822 051 20008 CHIP JUMPER 0805

3242 4822 051 10008 CHIP JUMPER 1206
 3243 4822 051 20008 CHIP JUMPER 0805
 3244 4822 051 20008 CHIP JUMPER 0805
 3245 4822 051 20008 CHIP JUMPER 0805
 3246 4822 051 10008 CHIP JUMPER 1206

3247 4822 051 10008 CHIP JUMPER 1206
 3248 4822 051 10008 CHIP JUMPER 1206

CAPACITORS

2104 4822 122 33195 100pF 10% 50V
 2115 4822 125 60101 3-11pF VARIABLE
 2118 4822 122 33195 100pF 10% 50V
 2124 4822 121 51367 10nF 20% 16V
 2129 4822 121 43705 390pF 1% 160V

2130 4822 125 50355 4,2-20pF VARIABLE
 2131 4822 122 33197 1nF 10% 50V
 2134 4822 122 33197 1nF 10% 50V
 2135 4822 121 70245 560pF 1% 160V
 2141 4822 124 40244 2,2pF 20% 63V

2142 4822 124 40242 1pF 20% 63V
 2143 4822 124 40239 0,47pF 20% 63V
 2144 4822 124 40239 0,47pF 20% 63V
 2150 4822 124 40248 10pF 20% 63V
 2151 4822 124 40248 10pF 20% 63V

2152 4822 124 41584 100pF 20% 10V
 2160 4822 124 40242 1pF 20% 63V
 2161 4822 124 40242 1pF 20% 63V
 2162 4822 124 40248 10pF 20% 63V
 2164 4822 124 40248 10pF 20% 63V

2170 4822 126 11714 4,7nF 20%
 2172 4822 124 41631 1,5pF 20% 50V
 2173 4822 124 40433 47pF 20% 25V
 2174 4822 122 33197 1nF 10% 50V
 2175 4822 122 33197 1nF 10% 50V

2177 4822 126 12882 100nF 50V
 2178 4822 122 33197 1nF 10% 50V
 2179 4822 122 33195 100pF 10% 50V
 2184 4822 124 41584 100pF 20% 10V
 2189 4822 124 40433 47pF 20% 25V

CHIP CAPACITORS

2107 5322 122 34123 1nF 10% 50V
 2110 5322 122 32659 33pF 5% 50V MW/LW
 2110 5322 122 32269 6,8pF 5% 50V MW
 2112 4822 122 33496 100nF 10% 63V
 2114 5322 122 32531 100pF 5% 50V

CHIP CAPACITORS

2120 5322 122 32268 470pF 10% 50V
 2121 5322 122 32481 15pF 5% 50V
 2122 5322 122 34123 1nF 10% 50V
 2123 5322 122 34123 1nF 10% 50V
 2133 4822 122 33128 15nF 10% 63V

2138 5322 122 32659 33pF 5% 50V
 2139 4822 122 33891 3,3nF 10% 63V
 2145 4822 122 33496 100nF 10% 63V
 2146 5322 122 33063 2,2pF 10% 50V
 2147 4822 122 33177 10nF 20% 50V

2148 5322 122 34123 1nF 10% 50V
 2149 5322 122 34123 1nF 10% 50V
 2154 4822 122 33893 18nF 10% 63V
 2155 4822 122 33893 18nF 10% 63V
 2163 5322 122 34123 1nF 10% 50V

2165 5322 122 34123 1nF 10% 50V
 2167 4822 122 33496 100nF 10% 63V
 2169 5322 122 31863 330pF 5% 50V
 2171 5322 126 10223 4,7nF 10% 63V
 2180 5322 122 31946 27pF 5% 50V

2181 4822 122 32139 12pF 5% 63V
 2182 4822 122 33496 100nF 10% 63V
 2183 4822 122 33496 100nF 10% 63V
 2185 4822 122 33496 100nF 10% 63V
 2186 5322 122 34123 1nF 10% 50V

CD BOARD

MISCELLANEOUS

1810 4822 276 13503 SWITCH, TRAY

DIODES

6857 4822 130 30621 IN4148
 6881 4822 130 31981 BZK79-C3V9
 6883 4822 130 31981 BZK79-C3V9

TRANSISTORS

7820 4822 130 41344 BC337-40
 7856 5322 130 60123 BC807-40 (CHIP)
 7872 5322 130 42136 BC848C (CHIP)
 7881 5322 130 41983 BC858B (CHIP)
 7883 4822 130 44197 BC558B

INTEGRATED CIRCUITS

7800 5322 209 11517 PC74HCU04T
 7850 4822 209 31064 TDA1301T/N1
 7851 4822 209 32852 TDA7073A/N2
 7852 4822 209 32852 TDA7073A/N2
 7855 4822 209 31519 TDA7072A

7860 4822 209 33339 SAA7345GP/MS
 7871 4822 209 32196 TDA1311AT/N2
 7886 4822 272 10371 7805 (Voltage regulator)
 7890 4822 209 33337 MC68HC05C8FB

COILS

5860 4822 543 00376 QUARTZ 16,934 MHz
 5890 4822 242 72527 CERAMIC RESONATOR 4,0 MHz

RESISTORS

3760 4822 116 52296 6k8 5% 0,5W
 3761 4822 116 52283 4k7 5% 0,5W
 3801 4822 116 52224 470R 5% 0,5W
 3815 4822 050 11002 1k 5% 0,2W
 3818 4822 116 52233 10k 5% 0,5W

3820 4822 050 11002 1k 5% 0,2W
 3825 4822 116 52233 10k 5% 0,5W
 3826 4822 116 52233 10k 5% 0,5W
 3827 4822 116 52233 10k 5% 0,5W
 3828 4822 116 52233 10k 5% 0,5W

3829 4822 116 52233 10k 5% 0,5W
 3830 4822 116 52233 10k 5% 0,5W
 3832 4822 116 52175 100R 5% 0,5W
 3833 4822 116 52233 10k 5% 0,5W
 3835 4822 116 52264 27k 5% 0,5W

3836 4822 116 52207 1k2 5% 0,5W
 3837 4822 116 52296 6k8 5% 0,5W
 3838 4822 116 52257 22k 5% 0,5W
 3839 4822 116 52207 1k2 5% 0,5W
 3840 4822 116 52296 6k8 5% 0,5W

3841 4822 116 52297 68k 5% 0,5W
 3843 4822 116 52277 39k 5% 0,16W
 3844 4822 050 11002 1k 5% 0,2W

3845 4822 116 52277 39k 5% 0,16W
 3846 4822 050 11002 1k 5% 0,2W

3855 4822 051 20224 220k 5% 0,1W
 3856 4822 051 20223 22k 5% 0,1W
 3862 4822 051 20105 1M 5% 0,1W
 3863 4822 051 10102 1k 2% 0,25W
 3864 4822 051 10102 1k 2% 0,25W

3865 4822 051 10102 1k 2% 0,25W
 3866 4822 051 20331 330R 5% 0,1W
 3867 4822 051 20472 4k7 5% 0,1W

RESISTORS

3847 4822 116 40227 4R7 PTC 0,2W
 3848 4822 050 11002 1k 5% 0,2W
 3849 4822 052 10338 3k3 NFR25
 3850 4822 050 11002 1k 5% 0,2W
 3851 4822 116 52264 27k 5% 0,5W

3852 4822 050 11002 1k 5% 0,2W
 3853 4822 116 52296 6k8 5% 0,5W
 3857 4822 116 52215 220R 5% 0,16W
 3858 4822 116 52215 220R 5% 0,16W
 3860 4822 116 52175 100R 5% 0,5W

3871 4822 116 52186 22R 5% 0,5W
 3876 4822 116 52284 47k 5% 0,5W
 3877 4822 116 52284 47k 5% 0,5W
 3880 4822 050 11002 1k 5% 0,2W
 3881 4822 050 11002 1k 5% 0,2W

3886 4822 116 52226 560R 5% 0,5W
 3889 4822 116 52233 10k 5% 0,5W
 3891 4822 116 52186 22R 5% 0,5W

CHIP RESISTORS

3750 4822 051 20154 150k 5% 0,1W
 3751 4822 051 20331 330R 5% 0,1W
 3752 4822 051 20221 220R 5% 0,1W
 3754 4822 051 20105 1M 5% 0,1W
 3755 4822 117 10833 10k 1% 0,1W

3762 4822 051 20221 220R 5% 0,1W
 3763 4822 051 20221 220R 5% 0,1W
 3764 4822 051 20221 220R 5% 0,1W
 3785 4822 117 10833 10k 1% 0,1W
 3790 4822 117 10833 10k 1% 0,1W

3791 4822 117 10833 10k 1% 0,1W
 3792 4822 117 10833 10k 1% 0,1W
 3793 4822 117 10833 10k 1% 0,1W
 3795 4822 117 10833 10k 1% 0,1W
 3802 4822 051 10102 1k 2% 0,25W

3803 4822 051 20335 3M3 5% 0,1W
 3804 4822 051 20682 6k8 5% 0,1W
 3805 4822 051 20223 22k 5% 0,1W
 3806 4822 117 10833 10k 1% 0,1W
 3807 4822 117 10833 10k 1% 0,1W

3808 4822 117 10834 47k 1% 0,1W
 3809 4822 051 20332 3k3 5% 0,1W
 3810 4822 051 20332 3k3 5% 0,1W
 3811 4822 051 20223 22k 5% 0,1W
 3812 4822 051 20332 3k3 5% 0,1W

3813 4822 051 20332 3k3 5% 0,1W
 3814 4822 051 20332 3k3 5% 0,1W
 3821 4822 051 20124 120k 5% 0,1W
 3822 4822 051 20563 56k 5% 0,1W
 3823 4822 051 20331 330R 5% 0,1W

3824 4822 051 20124 120k 5% 0,1W
 3831 4822 051 20223 22k 5% 0,1W
 3834 4822 051 20229 22R 5% 0,1W
 3842 4822 051 20182 1k8 5% 0,1W
 3854 4822 117 10833 10k 1% 0,1W

3855 4822 051 20224 220k 5% 0,1W
 3856 4822 051 20223 22k 5% 0,1W
 3862 4822 051 20105 1M 5% 0,1W
 3863 4822 051 10102 1k 2% 0,25W
 3864 4822 051 10102 1k 2% 0,25W

3865 4822 051 10102 1k 2% 0,25W

3866 4822 051 20331 330R 5% 0,1W

3867 4822 051 20472 4k7 5% 0,1W

CHIP RESISTORS

3216 4822 051 10006 CHIP JUMPER 1206
 3222 4822 051 20008 CHIP JUMPER 0805
 3223 4822 051 20008 CHIP JUMPER 0805
 3224 4822 051 20008 CHIP JUMPER 0805
 3226 4822 051 20008 CHIP JUMPER 0805

3228 4822 051 10008 CHIP JUMPER 1206
 3229 4822 051 20008 CHIP JUMPER 0805
 3231 4822 051 20008 CHIP JUMPER 0805
 3233 4822 051 20008 CHIP JUMPER 0805
 3234 4822 051 20008 CHIP JUMPER 0805

3235 4822 051 20008 CHIP JUMPER 0805
 3237 4822 051 10008 CHIP JUMPER 1206
 3238 4822 051 20008 CHIP JUMPER 0805
 3240 4822 051 10008 CHIP JUMPER 1206
 3241 4822 051 20008 CHIP JUMPER 0805

3242 4822 051 10008 CHIP JUMPER 1206
 3243 4822 051 20008 CHIP JUMPER 0805
 3244 4822 051 20008 CHIP JUMPER 0805
 3245 4822 051 20008 CHIP JUMPER 0805
 3246 4822 051 10008 CHIP JUMPER 1206

3247 4822 051 10008 CHIP JUMPER 1206
 3248 4822 051 10008 CHIP JUMPER 1206

CAPACITORS

2104 4822 122 33195 100pF 10% 50V
 2115 4822 125 60101 3-11pF VARIABLE
 2118 4822 122 33195 100pF 10% 50V
 2124 4822 121 51367 10nF 20% 16V
 2129 4822 121 43705 390pF 1% 160V

2130 4822 125 50355 4,2-20pF VARIABLE
 2131 4822 122 33197 1nF 10% 50V
 2134 4822 122 33197 1nF 10% 50V
 2135 4822 121 70245 560pF 1% 160V
 2141 4822 124 40244 2,2μF 20% 63V

2142 4822 124 40242 1μF 20% 63V
 2143 4822 124 40239 0,47μF 20% 63V
 2144 4822 124 40239 0,47μF 20% 63V
 2150 4822 124 40248 10μF 20% 63V
 2151 4822 124 40248 10μF 20% 63V

2152 4822 124 41584 100μF 20% 10V
 2160 4822 124 40242 1μF 20% 63V
 2161 4822 124 40242 1μF 20% 63V
 2162 4822 124 40248 10μF 20% 63V
 2164 4822 124 40248 10μF 20% 63V

2170 4822 126 11714 4,7nF 20%
 2172 4822 124 41631 1,5μF 20% 50V
 2173 4822 124 40433 47μF 20% 25V
 2174 4822 122 33197 1nF 10% 50V
 2175 4822 122 33197 1nF 10% 50V

2177 4822 126 12882 100nF 50V
 2178 4822 122 33197 1nF 10% 50V
 2179 4822 122 33195 100pF 10% 50V
 2184 4822 124 41584 100μF 20% 10V
 2189 4822 124 40433 47μF 20% 25V

CHIP CAPACITORS

2107 5322 122 34123 1nF 10% 50V
 2110 5322 122 32659 33pF 5% 50V MW/LW
 2110 5322 122 32269 6,8pF 5% 50V MW
 2112 4822 122 33496 100nF 10% 63V
 2114 5322 122 32531 100pF 5% 50V

CHIP CAPACITORS

2120 5322 122 32268 470pF 10% 50V
 2121 5322 122 32481 15pF 5% 50V
 2122 5322 122 34123 1nF 10% 50V
 2123 5322 122 34123 1nF 10% 50V
 2133 4822 122 33128 15nF 10% 63V

2138 5322 122 32659 33pF 5% 50V
 2139 4822 122 33891 3,3nF 10% 63V
 2145 4822 122 33496 100nF 10% 63V
 2146 5322 122 33063 2,2pF 10% 50V
 2147 4822 122 33177 10nF 20% 50V

2148 5322 122 34123 1nF 10% 50V
 2149 5322 122 34123 1nF 10% 50V
 2154 4822 122 33893 18nF 10% 63V
 2155 4822 122 33893 18nF 10% 63V
 2163 5322 122 34123 1nF 10% 50V

2165 5322 122 34123 1nF 10% 50V
 2167 4822 122 33496 100nF 10% 63V
 2169 5322 122 31863 330pF 5% 50V
 2171 5322 126 10223 4,7nF 10% 63V
 2180 5322 122 31946 27pF 5% 50V

2181 4822 122 32139 12pF 5% 63V
 2182 4822 122 33496 100nF 10% 63V
 2183 4822 122 33496 100nF 10% 63V
 2185 4822 122 33496 100nF 10% 63V
 2186 5322 122 34123 1nF 10% 50V

CD BOARD

MISCELLANEOUS

1810 4822 276 13503 SWITCH, TRAY

DIODES

6857 4822 130 30621 IN4148
 6881 4822 130 31981 BZX79-C3V9
 6883 4822 130 31981 BZX79-C3V9

TRANSISTORS

7820 4822 130 41344 BC337-40
 7856 5322 130 60123 BC807-40 (CHIP)
 7872 5322 130 42136 BC848C (CHIP)
 7881 5322 130 41983 BC858B (CHIP)
 7883 4822 130 44197 BC558B

INTEGRATED CIRCUITS

7800 5322 209 11517 PC74HCU04T
 7850 4822 209 31064 TDA1301T/N1
 7851 4822 209 32852 TDA7073A/N2
 7852 4822 209 32852 TDA7073A/N2
 7855 4822 209 31519 TDA7072A

7860 4822 209 33339 SAA7345GP/M5
 7871 4822 209 32196 TDA1311AT/N2
 7886 4822 272 10371 7805 (Voltage regulator)
 7890 4822 209 33337 MC68HC05C8FB

COILS

5860 4822 543 00376 QUARTZ 16,934 MHz
 5890 4822 242 72527 CERAMIC RESONATOR 4,0 MHz

RESISTORS

3760 4822 116 52296 6k8 5% 0,5W
 3761 4822 116 52283 4k7 5% 0,5W
 3801 4822 116 52224 470R 5% 0,5W
 3815 4822 050 11002 1k 5% 0,2W
 3818 4822 116 52233 10k 5% 0,5W

3820 4822 050 11002 1k 5% 0,2W
 3825 4822 116 52233 10k 5% 0,5W
 3826 4822 116 52233 10k 5% 0,5W
 3827 4822 116 52233 10k 5% 0,5W
 3828 4822 116 52233 10k 5% 0,5W

3829 4822 116 52233 10k 5% 0,5W
 3830 4822 116 52233 10k 5% 0,5W
 3832 4822 116 52175 100R 5% 0,5W
 3833 4822 116 52233 10k 5% 0,5W
 3835 4822 116 52264 27k 5% 0,5W

3836 4822 116 52207 1k2 5% 0,5W
 3837 4822 116 52296 6k8 5% 0,5W
 3838 4822 116 52257 22k 5% 0,5W
 3839 4822 116 52207 1k2 5% 0,5W
 3840 4822 116 52296 6k8 5% 0,5W

3841 4822 116 52297 68k 5% 0,5W
 3843 4822 116 52277 39k 5% 0,16W
 3844 4822 050 11002 1k 5% 0,2W
 3845 4822 116 52277 39k 5% 0,16W
 3846 4822 050 11002 1k 5% 0,2W

3854 4822 117 10833 10k 1% 0,1W
 3855 4822 051 20224 220k 5% 0,1W
 3856 4822 051 20223 22k 5% 0,1W
 3861 4822 051 20229 22R 5% 0,1W
 3862 4822 051 20563 56k 5% 0,1W
 3863 4822 051 20331 330R 5% 0,1W

3864 4822 051 20124 120k 5% 0,1W
 3865 4822 051 20223 22k 5% 0,1W
 3866 4822 051 20331 330R 5% 0,1W
 3867 4822 051 20472 4k7 5% 0,1W

RESISTORS

3847 4822 116 40227 4R7 PTC 0,2W
 3848 4822 050 11002 1k 5% 0,2W
 3849 4822 052 10338 3k3 NFR25
 3850 4822 050 11002 1k 5% 0,2W
 3851 4822 116 52264 27k 5% 0,5W

3852 4822 050 11002 1k 5% 0,2W
 3853 4822 116 52296 6k8 5% 0,5W
 3857 4822 116 52215 220R 5% 0,16W
 3858 4822 116 52215 220R 5% 0,16W
 3860 4822 116 52175 100R 5% 0,5W

3871 4822 116 52186 22R 5% 0,5W
 3876 4822 116 52284 47k 5% 0,5W
 3877 4822 116 52284 47k 5% 0,5W
 3880 4822 050 11002 1k 5% 0,2W
 3881 4822 050 11002 1k 5% 0,2W

3886 4822 116 52226 560R 5% 0,5W
 3889 4822 116 52233 10k 5% 0,5W
 3891 4822 116 52186 22R 5% 0,5W

CHIP RESISTORS

3750 4822 051 20154 150k 5% 0,1W
 3751 4822 051 20331 330R 5% 0,1W
 3752 4822 051 20221 220R 5% 0,1W
 3754 4822 051 20105 1M 5% 0,1W
 3755 4822 117 10833 10k 1% 0,1W

3762 4822 051 20221 220R 5% 0,1W
 3763 4822 051 20221 220R 5% 0,1W
 3764 4822 051 20221 220R 5% 0,1W
 3785 4822 117 10833 10k 1% 0,1W
 3790 4822 117 10833 10k 1% 0,1W

3791 4822 117 10833 10k 1% 0,1W
 3792 4822 117 10833 10k 1% 0,1W
 3793 4822 117 10833 10k 1% 0,1W
 3795 4822 117 10833 10k 1% 0,1W
 3802 4822 051 10102 1k 2% 0,25W

3803 4822 051 20335 3M3 5% 0,1W
 3804 4822 051 20682 6k8 5% 0,1W
 3805 4822 051 20223 22k 5% 0,1W
 3806 4822 117 10833 10k 1% 0,1W
 3807 4822 117 10833 10k 1% 0,1W

3808 4822 117 10834 47k 1% 0,1W
 3809 4822 051 20332 3k3 5% 0,1W
 3810 4822 051 20332 3k3 5% 0,1W
 3811 4822 051 20223 22k 5% 0,1W
 3812 4822 051 20332 3k3 5% 0,1W

3813 4822 051 20332 3k3 5% 0,1W
 3814 4822 051 20332 3k3 5% 0,1W
 3821 4822 051 20124 120k 5% 0,1W
 3822 4822 051 20563 56k 5% 0,1W
 3823 4822 051 20331 330R 5% 0,1W

3824 4822 051 20124 120k 5% 0,1W
 3831 4822 051 20223 22k 5% 0,1W
 3834 4822 051 20229 22R 5% 0,1W
 3842 4822 051 20182 1k8 5% 0,1W
 3854 4822 117 10833 10k 1% 0,1W

3855 4822 051 20224 220k 5% 0,1W
 3856 4822 051 20223 22k 5% 0,1W
 3862 4822 051 20105 1M 5% 0,1W
 3863 4822 051 10102 1k 2% 0,25W
 3864 4822 051 10102 1k 2% 0,25W

3865 4822 051 10102 1k 2% 0,25W
 3866 4822 051 20331 330R 5% 0,1W
 3867 4822 051 20472 4k7 5% 0,1W

CHIP RESISTORS

3885	4822 051 20222	2k2	2%	0,25W
3887	4822 051 20473	47k	5%	0,1W
3890	4822 051 10102	1k	2%	0,25W
3892	4822 117 10833	10k	1%	0,1W
3893	4822 117 10833	10k	1%	0,1W
3894	4822 117 10833	10k	1%	0,1W
3895	4822 117 10833	10k	1%	0,1W
3896	4822 117 10833	10k	1%	0,1W
3899	4822 117 10833	10k	1%	0,1W
4801	4822 051 10008	CHIP JUMPER 1206		
4802	4822 051 10008	CHIP JUMPER 1206		
4805	4822 051 10008	CHIP JUMPER 1206		
4806	4822 051 10008	CHIP JUMPER 1206		
4808	4822 051 10008	CHIP JUMPER 1206		
4809	4822 051 10008	CHIP JUMPER 1206		
4810	4822 051 10008	CHIP JUMPER 1206		
4811	4822 051 10008	CHIP JUMPER 1206		
4812	4822 051 10008	CHIP JUMPER 1206		
4813	4822 051 10008	CHIP JUMPER 1206		
4814	4822 051 10008	CHIP JUMPER 1206		
4815	4822 051 10008	CHIP JUMPER 1206		
4816	4822 051 10008	CHIP JUMPER 1206		
4820	4822 051 10008	CHIP JUMPER 1206		
4850	4822 051 10008	CHIP JUMPER 1206		
4851	4822 051 10008	CHIP JUMPER 1206		

CAPACITORS

2752	5322 122 32531	100pF	5%	50V
2753	5322 122 32531	100pF	5%	50V
2762	5322 122 32658	22pF	5%	50V
2763	5322 122 32658	22pF	5%	50V
2764	5322 122 32658	22pF	5%	50V
2769	4822 124 80115	4,7µF	20%	25V
2770	4822 124 80115	4,7µF	20%	25V
2814	4822 126 13239	2,2nF	10%	16V
2818	4822 124 80483	47µF	20%	6,3V
2831	4822 124 80483	47µF	20%	6,3V
2833	4822 124 80483	47µF	20%	6,3V
2836	4822 126 13098	5,6nF	20%	16V
2837	4822 122 10459	560pF	10%	50V
2839	4822 121 51387	10nF	20%	16V
2840	4822 122 10576	1,8nF	10%	16V
2843	5322 124 41948	0,47µF	20%	50V
2847	5322 124 41942	33µF	20%	25V
2848	4822 124 80483	47µF	20%	6,3V
2849	4822 124 40433	47µF	20%	25V
2850	4822 124 80115	4,7µF	20%	25V

CAPACITORS

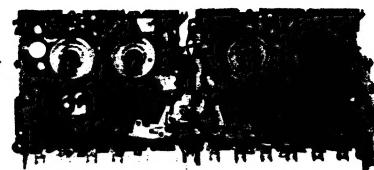
2851	4822 121 51387	10nF	20%	16V
2853	5322 121 42386	100nF	5%	63V
2856	5322 121 42661	330nF	5%	63V
2860	4822 124 40177	47µF	20%	10V
2864	4822 124 42433	330µF	20%	6,3V
2866	4822 124 42433	330µF	20%	6,3V
2892	4822 124 11423	4,7µF	20%	25V

CHIP CAPACITORS

2802	4822 122 33064	330nF	20%	25V
2803	4822 122 33515	82pF	5%	50V
2804	4822 122 33515	82pF	5%	50V
2805	5322 122 33538	150pF	5%	63V
2806	5322 122 31946	27pF	5%	50V
2807	5322 122 32452	47pF	5%	50V
2808	5322 122 32452	47pF	5%	50V
2809	5322 122 32452	47pF	5%	50V
2810	5322 122 32481	15pF	5%	50V
2811	5322 122 33538	150pF	5%	63V
2820	5322 116 80853	560pF	5%	63V
2821	4822 126 10326	180pF	5%	50V
2822	5322 122 31863	330pF	5%	50V
2823	5322 122 31865	1,5nF	10%	63V
2824	4822 126 10326	180pF	5%	50V
2825	4822 122 33575	220pF	5%	50V
2826	4822 122 33575	220pF	5%	50V
2827	4822 122 33575	220pF	5%	50V
2828	4822 122 33575	220pF	5%	50V
2829	4822 122 33575	220pF	5%	50V
2830	4822 122 33575	220pF	5%	50V
2834	5322 122 32654	22nF	10%	63V
2838	4822 122 33496	100nF	10%	63V
2852	4822 122 33496	100nF	10%	63V
2854	5322 122 32531	100pF	5%	50V
2857	5322 122 32452	47pF	5%	50V
2858	5322 122 32654	22nF	10%	63V
2859	4822 122 33496	100nF	10%	63V
2861	5322 122 32658	22pF	20%	50V
2862	5322 122 32661	56pF	20%	50V
2867	4822 122 33496	100nF	10%	63V
2876	5322 122 34123	1nF	10%	50V
2877	5322 122 34123	1nF	10%	50V
2878	5322 122 32531	100pF	5%	50V
2879	5322 122 32531	100pF	5%	50V
2881	4822 122 33496	100nF	10%	63V
2883	4822 122 33064	330nF	25%	25V
2891	4822 122 33496	100nF	10%	63V
2893	5322 122 32531	100pF	5%	50V
2894	5322 122 32531	100pF	5%	50V
2895	5322 122 32531	100pF	5%	50V
2897	5322 122 32838	82nF	5%	50V

Service
Service
Service

For details and exploded view see
Service Manual of tape transport RN/RR, RDN/RDR
General Documentation 4822 725 23763



44 990 A11

Service Manual

GB MAINTENANCE

It is recommended to clean the recorder after approx. 500 hours of operation.

To be cleaned with alcohol or spirit

- Erase head
- Recording/playback head
- Capstan
- Pressure roller

F ENTRETIEN

L'appareil devra être nettoyé après env. 500 heures de marche aux points les plus importants.

Nettoyer les éléments suivants à l'alcool ou à l'alcool à brûler:

- Tête effacement
- Tête enregistrement/reproduction
- Cabestan
- Galet presseur

I MANUTENZIONE

E consigliabile pulire l'apparecchio dopo circa 500 ore di funzionamento ai punti principali.

Pulire con alcool

- Testina di cancellazione
- Testina di registrazione/riproduzione
- Capstan
- Rullo preministro

Le versions des documents
Les éditions par nos agents
Les éditions, leurs habilités à réparer
Les éditions en parallèle

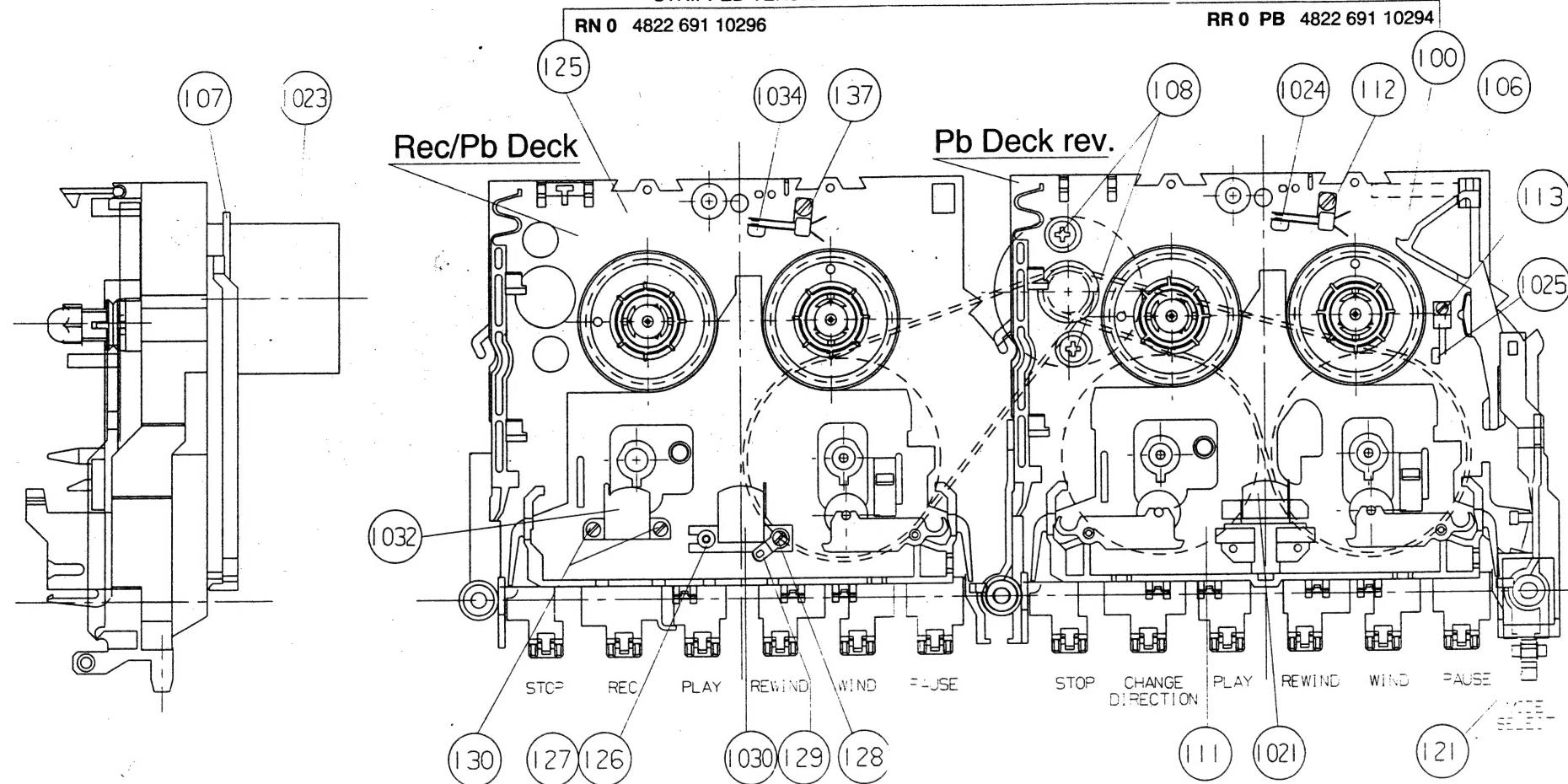
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CS 48 705

PHILIPS

STRIPPED VERSION WITHOUT NOTED ITEMS IS CALLED AND HANDLED AS



100	4822 691 10294	RR0 Pb assy
106	4822 403 70385	lever, antislect
107	4822 529 10254	damper,motor
108	4822 502 11866	screw,motor
125	4822 691 10296	RN 0 assy
111	4822 492 70393	headclip
121	4822 403 53876	lever, mode select
126	4822 492 51473	spring,azimuth
1021	4822 249 30156	head, reverse
1023	4822 361 21718	motor, MSI-5U9LWDR
1024	4822 271 30596	switch, indication play
1025	4822 278 90624	switch, indication direction
1030	4822 249 10397	head, Rec/Pb
1032	4822 249 20072	head,erase
1034	4822 271 30596	switch, indication play

General parts

7/67	4822 520 10718	bearing plate
38/61	4822 520 40134	ball, bearing
40	4822 402 10037	lever, pinch roller right
41/76	4822 528 70646	pinch roller
43	4822 404 10853	slide, key lock
58	4822 358 30929	drive belt RNO S (long)
73	4822 402 10038	lever, pinch roller left
74	4822 535 92992	tapeguide right
75	4822 535 92993	tapeguide left
98	4822 358 30928	drive belt RNO D (short)
402	4822 528 20676	take-up clutch assy

Only those parts of which a service code number is stated are service parts.